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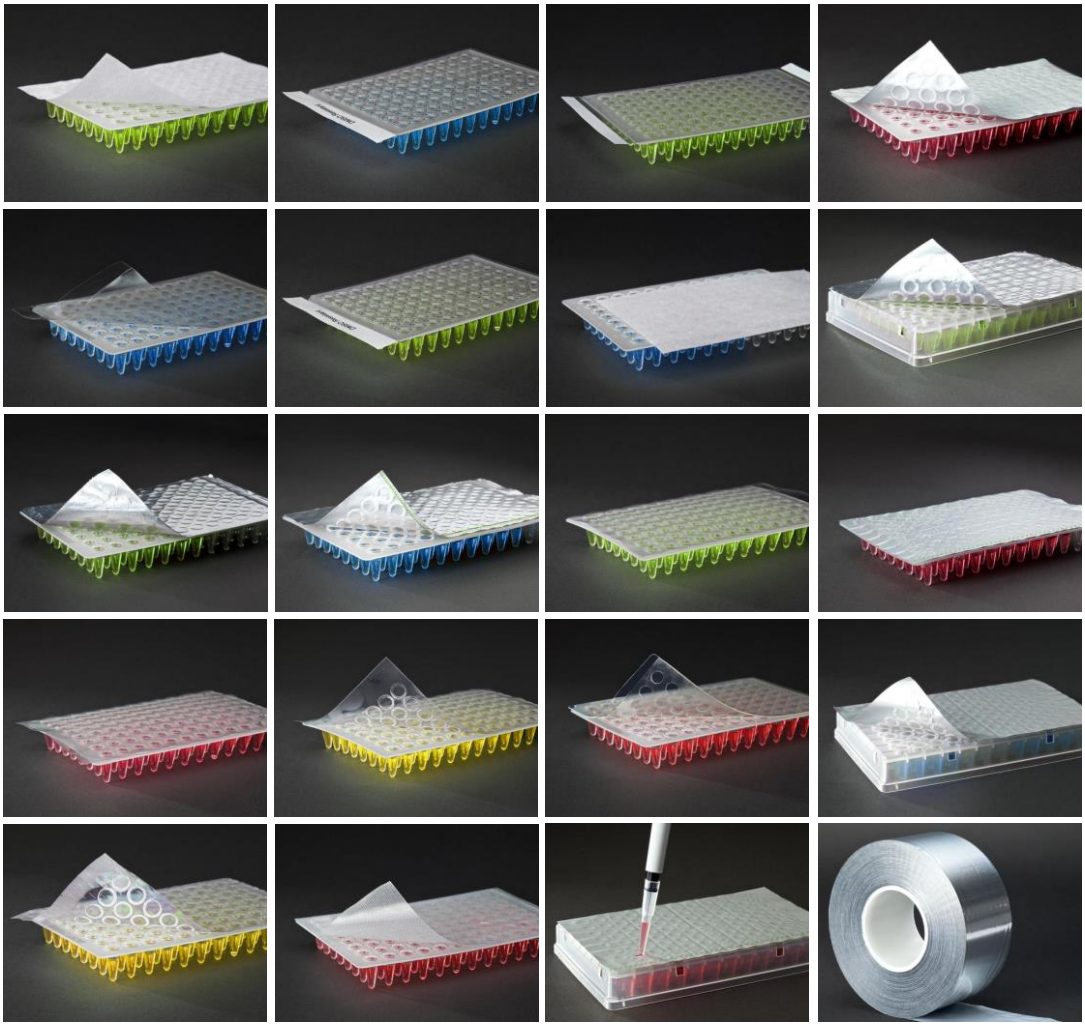
Sealing Foils & Films 2021



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Sealing Foils & Films 2021

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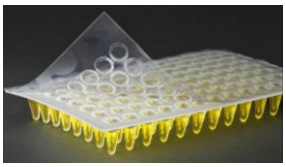

9095-10101
Clear Seal Peel

Description

A clear film with good optical clarity and moderate solvent resistant properties.
The film is peel-able and non-pierceable.

Ordering

9095-10101-078LR	** Std	LabRoll™	1 Roll	500m	x	78mm
9095-10101-078SR	** Sterile	LabRoll™	1 Roll	500m	x	78mm
9095-10101-115LR	*** VII Std	LabRoll™	1 Roll	350m	x	115mm
9095-10101-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	x	115mm
9095-10101-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10101-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10101-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10101-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10101-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.

Application

qPCR, short term compound storage.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 80°C

Sealing

Temperature and Dwell Time: 180° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Clear and thick plastic seal. Sealing surface on inside of roll and is less reflective.

Physical Properties

Flexible plastic, difficult to crease, upper surface feels very smooth, sealing side has a slight rough feel. Temperature Range: -80°C to +80°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details: 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass
Details: Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details: Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details: Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)
Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

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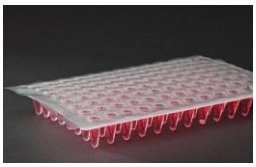

9095-10102
Clear Seal Weld

Description

A strong, clear bonding film which is ideal for water thermal cyclers. The film has good optical clarity is solvent resistant and has a permanent seal. It is nonpierceable and non peelable.

Ordering

9095-10102-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10102-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10102-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10102-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10102-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10102-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10102-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10102-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10102-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

A Permanent seal to Polypropylene (PP)

Application

qPCR, PCR, (water bath thermal cycling), storage, sample inspection, disposal of hazardous materials, use with DMSO.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 110°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Very clear and thick plastic seal. The seals two sides are very similar, so care must be taken when sealing.

Physical Properties

Flexible plastic, not easily creased upper feels very smooth, sealing surface on inside of roll and feels rougher to the touch. Temperature Range: -80°C to +110°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: N/A
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details: Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP)
Details: Temperature and Dwell Time: 175°C, 2 seconds.

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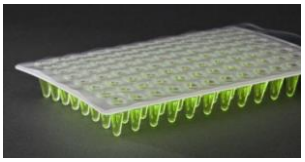

9095-10103
Clear Seal Pierce

Description

A clear heat-seal film which is ideal for use with ABI 3730 sequencer. The film has good optical clarity and moderate solvent resistance, it is non-peel-able and pierceable.

Ordering

9095-10103-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10103-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10103-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10103-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10103-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10103-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10103-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10103-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10103-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.

Application

Recommended for use with the Abi 3730 Sequencer as the thinner structure pierces more easily

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 80°C or 110°C with pressurised PCR heated lids.

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Clear and thick plastic seal. Sealing surface on inside of roll and is less reflective.

Physical Properties

Flexible plastic, difficult to crease, upper surface feels very smooth, sealing side has a slight rough feel. Temperature range -80°C to 80°C or 110°C with pressurized PCR heated lids

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: N/A
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)
Details: Temperature and Dwell Time: 175°C, 2 seconds.

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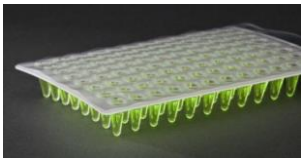

9095-10103-100M
Adhesive Crystallography

Description

Optically clear adhesive film, pressure activated adhesive, suitable for qPCR and other imaging techniques including crystaqllisation.

Ordering

9095-10103-100M	Lab Roll	1 Roll	80mm x 100 metres

Application

qPCR.
High degree of optical clarity for ease of read through.
Little or no auto-fluorescence for a high degree of light transmission.
Chemically inert extractables except at extreme pH.
Adheres well to a wide range of substrates

Storage

Room temperature. Avoid direct exposure to light and high humidity

Sealing

For all adhesive seals the best sealing results are achieved using a hand-held pressure roller.

Properties

Temperature range -80°C to 110°C with pressurised heated PCR Lid.

Composition

Polyolefin film with pressure sensitive silicone adhesive and coated polyester film release liner. Non-tacky to skin and gloves

Safety

Non-hazardous. This is a pressure seal. The adhesive is released when pressure
Is applied firmly and evenly to the seal.

Schematic

Note

Non-hazardous. This is a pressure seal. The adhesive is released when pressure
Is applied firmly and evenly to the seal.

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9095-10104
Peel Seal Foil

Description

A peel-able, foil laminate heat-seal film which is suited for Polypropylene plates. The film has a good liquid barrier and moderate resistance to solvents. It is peel-able (from -80°C freezer) and is non-pierceable.

Ordering

9095-10104-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10104-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10104-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10104-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10104-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10104-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10104-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10104-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10104-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP) Plates.

Application

PCR, low temperature, short term compound storage, short term room temperature compound storage (less than 5 days).

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 110°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Metallic with upper surface gloss white. Seal surface metallic burnished foil.

Physical Properties

Flexible, not easily creased. Temperature Range: -80°C to +110°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), welds to Polyethylene (PE) and certain Cyclo Olefin Copolymer (COC)
Details: Temperature and Dwell Time: 175°C, 2 seconds.

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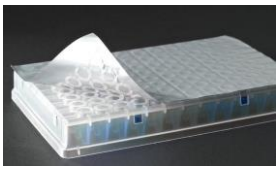

9095-10105
Pierce Seal Foil DMSO

Description

A DMSO resistant foil laminate suited for Polypropylene plates, with a good liquid barrier and high solvent-resistance (at high temperatures). The seal is peel-able and non-pierceable.

Ordering

9095-10105-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10105-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10105-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10105-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10105-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10105-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10105-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10105-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10105-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP) Plates.

Application

Low temperature and ambient temperature storage with DMSO and other solvents

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 120°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Upper glossy metallic surface. Sealing surface less reflective, more highly burnished and smoother.

Physical Properties

Flexible, not easily creased. Temperature Range: -80°C to +80°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP), certain Cyclo Olefin Copolymer(COC) plates, welds to Polyethylene (PE)
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

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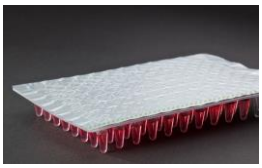

9095-10106
Pierce Seal Foil

Description

A pierceable foil seal with easy sealing surface identification and high solvent resistance including DMSO. The film is non-peelable, pierceable and re-sealing is permissible.

Ordering

9095-10106-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10106-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10106-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10106-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10106-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10106-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10106-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10106-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10106-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS).

Application

Low temperature and ambient temperature storage with DMSO and other solvents. PCR, compound storage, sample shipping.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 120°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Metallic reflective foil, with both sides appearing very similar. Dashed line denotes the upper surface.

Physical Properties

Very flexible foil, not easily creased. Temperature Range: -20°C to 120°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Test Value = 4.49N

Burst Testing

Determining the materials adhesion to the plate. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), Polystyrene (PS)
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

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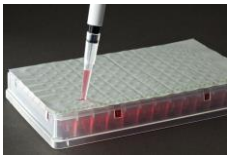

9095-10107
Pierce Seal Foil PS

Description

A pierceable A high grade foil with good solvent resistance including DMSO, easy sealing surface identification with multiple sealing and resealing properties. The seal is peel-able Polystyrene only and pierceable. foil seal with easy sealing surface identification and high solvent resistance including DMSO. The film is non-peel-able, pierceable and re-sealing is permissible.

Ordering

9095-10107-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10107-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10107-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10107-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10107-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10107-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10107-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10107-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10107-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS).

Application

PCR low temperature compound storage, short term room temperature compound storage.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 110°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Metallic reflective foil, with both sides appearing very similar. Printed line denotes upper surface.

Physical Properties

Very flexible foil, not easily creased. Temperature Range: -20°C to 110°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Test Value = 7.22N. Equipment Instron 3343 Tensometer.

Burst Testing

Determining the materials adhesion to the plate. Results Pass
Details Microplates are sealed and tested under pressure. Tests passed once achieved 2 bar of pressure or greater. Equipment Miniburst 5

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), Polystyrene (PS)
Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

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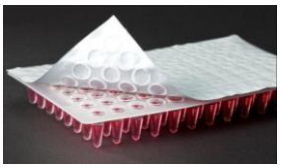

9095-10108
Therm Seal Foil

Description

A strong bonding foil to Polypropylene which is ideal for water thermal cyclers. The foil has good solvent resistance including DMSO and is peel-able and non-pierceable.

Ordering

9095-10108-078LR	** Std	LabRoll™	1 Roll	500m	x	78mm
9095-10108-078SR	** Sterile	LabRoll™	1 Roll	500m	x	78mm
9095-10108-115LR	*** VII Std	LabRoll™	1 Roll	350m	x	115mm
9095-10108-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	x	115mm
9095-10108-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10108-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10108-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10108-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10108-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS).

Application

PCR, specifically water thermal cyclers. Storage of solvents and other organics, including acids and alkaline. Long term storage. Transportation at low temperature.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 110°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Upper highly reflective metallic with a gloss finish. Seal side burnished metal, duller but still shiny, less reflective.

Physical Properties

Foil, thermal seal. Resistant to high and low temperatures. Thick, quite easy to crease but still flexible. Temperature Range: -200°C to +110°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Fail
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Burst Testing

Determining the materials adhesion to the plate. Results Pass
Details Microplates are sealed and tested under pressure. Tests passed once achieved 2 bar of pressure or greater. Equipment Mini-burst 5

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), Polystyrene (PS)
Temperature and Dwell Time: 175°C, 2 seconds.

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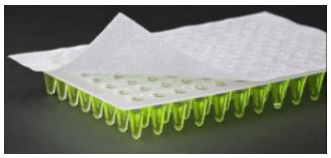

9095-10110
Gas Perm Seal

Description

An opaque, non-woven porous and gas permeable film which acts as a barrier to solid contaminants. It seals to Polypropylene and Polystyrene plates. The seal is pierceable and peel-able, and not certified free from nucleases and DNA.

Ordering

9095-10110-078LR	** Std	LabRoll™	1 Roll	200m	x	78mm
9095-10110-078SR	** Sterile	LabRoll™	1 Roll	200m	x	78mm
9095-10110-115LR	*** VII Std	LabRoll™	1 Roll	200m	x	115mm
9095-10110-115SR	*** Sterile VII	LabRoll™	1 Roll	200m	x	115mm
9095-10110-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10110-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10110-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10110-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10110-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS).

Application

Short term incubation, agriculture and seed storage, insect storage, cell culture.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 80°C

Sealing

Temperature and Dwell Time: 170° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

White non-woven. Seal side has a shiny lacquer coating

Physical Properties

Temperature Range: -20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS)

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: N/A
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Water Vapour Transmission

Confirming the materials ability to breath. Results: Pass
Details: Measure the weight loss of water during a set time at a set temperature and humidity Test Method: T30/001, Ref ASTM E-96-66, Target: 1800 g/m²/24h

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene(PP), Polystyrene (PS)
Temperature and Dwell Time: 160°C, 2 seconds.

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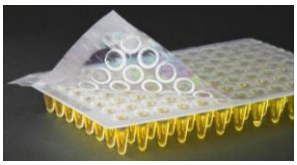

9095-10111
Clear Seal Perf

Description

A clear, perforated gas permeable film, suited for cell and seed culture, with good optical clarity and moderate solvent resistance. The seal is non peel-able.

Ordering

9095-10111-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10111-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10111-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10111-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10111-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10111-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10111-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10111-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10111-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.

Application

Short-term incubation, agriculture and seed storage, insect storage, cell culture.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 80°C, or 110°C with pressurised PCR heated lids.

Sealing

Temperature and Dwell Time: 180° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Physical Properties

Temperature Range: -80°C to +80°C or 110°C with pressurized PCR heated lids

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: N/A
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer

Low Temperature Seal Test

Confirming the materials ability to resist low temperatures. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)
Details: Temperature and Dwell Time: 175°C, 2 seconds.

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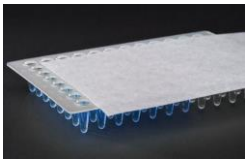

9095-10113
Gas Perm Seal 2

Description

A 60gsm Paper with a grid lacquer coating to give a smooth peel, the Seal is Porous, Gas Permeable and a Barrier to Solid Contaminants. It seals to Polypropylene and Polystyrene plates. The seal is pierceable and peel-able, and not certified free from nucleases and DNA.

Ordering

9095-10113-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10113-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10113-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10113-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10113-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10113-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10113-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10113-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10113-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS).

Application

Short term incubation, agriculture and seed storage, insect storage, cell culture.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 80°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Upper 60gsm paper. Seal side grid effect lacquer coating

Physical Properties

Temperature Range: -20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS)

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: N/A
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Porosity Bendsten

Confirming the materials ability to breath. Results: Pass
Details: Measure the defined volume of air forced through the material by specified pressure. Test Method: ISO3781, Units ml/min Target: 25

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP) Polystyrene (PS) Cyclo Olefin Copolymer (COC)
Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

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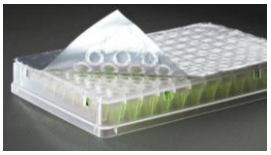

9095-10114
Peel Seal Foil Super

Description

A “stick to all” peel-able, foil laminate heat-seal film which is suited for all plate types - Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC). The film has a good liquid barrier and high resistance to solvents. It is peel-able (from -80°C freezer) and is non-pierceable. This seal has a white colour to the top aspect.

Ordering

9095-10114-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10114-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10114-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10114-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10114-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10114-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10114-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10114-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10114-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS) & Cyclo Olefin Copolymer (COC) plates

Application

PCR, low temperature, short term compound storage, short term room temperature compound storage (less than 5 days).

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 110°C

Sealing

Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Metallic with upper surface gloss white. Seal surface metallic burnished foil.

Physical Properties

Flexible, not easily creased. Thicker than IST-104. Temperature Range: -80°C to +110°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) and non-binding coated plates.
Temperature and Dwell Time: 175°C, 2 seconds.

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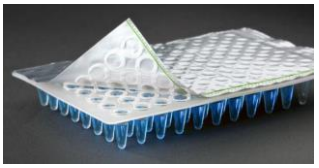

9095-10115
Pierce Seal Foil Super

Description

A “stick to all” surfaces, pierce-able foil seal with easy sealing surface identification and moderate solvent resistance. The film is peel-able and pierce-able.

Ordering

9095-10115-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm
9095-10115-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm
9095-10115-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm
9095-10115-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm
9095-10115-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm
9095-10115-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm
9095-10115-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm
9095-10115-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10115-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm

Compatibility

Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)

Application

PCR, compound storage, sample shipping.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -80°C to 80°C

Sealing

Temperature and Dwell Time: 180° C, 2 seconds Recommended sealing
Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)

Specifications

Visual Description

Metallic reflective foil, with both sides appearing very similar. Ensure correct surface is being used for sealing.

Physical Properties

Flexible foil, not easily creased. Temperature Range: -80°C to 80°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution

Plate Types, Sealing Temp. Time Settings

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)
Temperature and Dwell Time: 175°C, 2 seconds.

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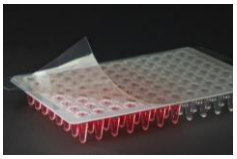

9095-10120
Quick Seal PCR

Description	A “stick to all” surfaces, pierce-able foil seal with easy sealing surface identification and moderate solvent resistance. The film is peel-able and pierce-able.
Ordering	9095-10120-080LR ** Std LabRoll™ 1 Roll 100m x 80mm 9095-10120-080SR ** Sterile LabRoll™ 1 Roll 100m x 80mm 9095-10120-080LS * Std LabSheet™ 100 Sheets 135mm x 80mm 9095-10120-080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm 9095-10120-080TS Trial LabSheet™ 5 Sheets 135mm x 80mm
Compatibility	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)
Application	PCR
Storage	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.
Properties	Temperature range -20°C to 100°C
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description	A transparent self-adhesive seal consisting of a PET backing and a modified acrylic adhesive.
Physical Properties	High holding power even at elevated temperatures. Superior converting performance due to strong PET backing and reduced adhesive mass flow. Temperature Range: -20°C to +110°C

Test procedures

Mass Loss	**Confirming the materials ability to resist high temperatures. Results: Pass** Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
Pierce	**Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A** Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
Optical	**Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass** Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
Peel	**Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass** Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer
Low Temperature Seal Test	**Confirming the materials ability to breath. Results: Pass** Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
Solvent	**Evaluating the materials resistance to solvents** (DMSO used as an aggressive standard) **Results: Pass** Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
Plate Types	**Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)**

Adhesive Seals

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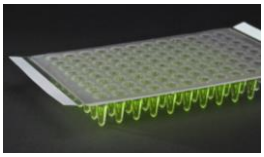

9095-10121
Quick Seal qPCR Crystal

Description

An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384 well) fluorescence, crystallation, storage. A transparent non-tacky film which adheres only when pressure is applied. It is non-pierceable and peel-able.

Ordering

9095-10121-080LR	** Std	LabRoll™	1 Roll	100m	x	80mm
9095-10121-080SR	** Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10121-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
9095-10121-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
9095-10121-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

Compatibility

Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)

Application

qPCR (94 or 384 well) and situations where fluorescence is experienced and optical clarity is required.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -40°C to 100°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Clear plastic, reflective, glossy on the top. Very thin and light and doesn't crease easily.

Physical Properties

Pressure sensitive adhesive tape, so the seal side doesn't feel sticky, mainly used for bonding materials to various substrates. Temperature Range: -40°C to +110°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

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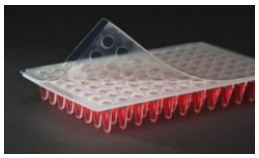

9095-10122
Quick Seal qOptic

Description

A transparent film which is suitable for qPCR. The seal is non-pierceable, is peel-able and contains precise optical windows.

Ordering

9095-10122-080LR	** Std	LabRoll™	1 Roll	100m	x	80mm
9095-10122-080SR	** Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10122-080LS	* Std	LabSheet™	100 Sheets	140mm	x	80mm
9095-10122-080SS	* Sterile	LabSheet™	100 Sheets	140mm	x	80mm
9095-10122-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm

Compatibility

Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)

Application

qPCR, fluorescence applications.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 110°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Physical Properties

Temperature Range: -20°C to +110°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

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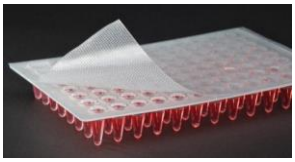

9095-10124
Quick Seal Gas Perm

Description

A transparent, perforated gas permeable film. The seal is perforated and permeable to gases. It is peel-able and pierce-able.

Ordering

9095-10124-080LR	** Std	LabRoll™	1 Roll	100m	x	80mm
9095-10124-080SR	** Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10124-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
9095-10124-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
9095-10124-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

Compatibility

Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)

Application

Bacterial culture, Eukaryotic cell culture,

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 80°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Transparent, Perforated EVA medical Tape, Plastic, weave textured, with a cream coloured Liner.

Physical Properties

Single coated tape, consisting of a transparent, perforated, hypoallergenic coated, pressure sensitive acrylate adhesive. Temperature range: -20°C to +80°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solutions evaluated after 30 Cycles of 3 step PCR Programme.
Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Porosity Bendsten

Confirming the materials ability to resist low temperatures. Results: Pass
Details: MVTR, gms/m2/day. Air Porosity, Gurley 15 sec/100cc/Sq. in.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) Cyclo Olefin Copolymer (COC).

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

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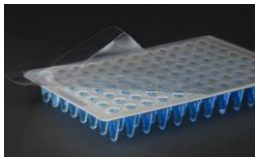

9095-10125
Quick Seal Micro

Description

A strong transparent adhesive film which is suitable for sample storage. The seal is non-pierceable and peel-able with a medium strength.

Ordering

9095-10125-080LR	** Std	LabRoll™	1 Roll	100m	x	80mm
9095-10125-080SR	** Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10125-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
9095-10125-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
9095-10125-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Application

Sample Storage (aqueous), low cost cover for application like centrifugation.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 80°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Opaque, Thin, Plastic material.

Physical Properties

Polypropylene – PP – Top Coated, Gloss Clear TC PP

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

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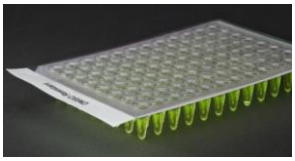

9095-10126
Quick Seal DMSO X

Description	A transparent film which is DMSO resistant. This film is peel-able with crosscuts over the wells making it ideal for auto samplers. It automatically cleans tips on extraction. Re-sealing onto the existing seal is permissible.

Ordering

9095-10126-080LS	* Std	LabSheet™	100 Sheets	140mm	x	80mm
9095-10126-080SS	* Sterile	LabSheet™	100 Sheets	140mm	x	80mm
9095-10126-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm

Compatibility	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)
Application	Sample access and retrieval for 96 well plates for use with auto samplers and sequencers.
Storage	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.
Properties	Temperature range -40°C to 80°C
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description	Clear plastic film with cross cuts over the wells.
Physical Properties	Temperature Range: -40°C to +80°C

Test procedures

Mass Loss	**Confirming the materials ability to resist high temperatures. Results: Pass** Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
Pierce	**Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A** Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
Optical	**Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass** Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
Peel	**Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass** Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
Low Temperature Seal Test	**Confirming the materials ability to breath. Results: Pass** Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
Solvent	**Evaluating the materials resistance to solvents** (DMSO used as an aggressive standard) **Results: N/A** Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
Plate Types	**Polypropylene (PP), Polystyrene (PS)**

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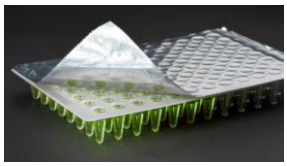

9095-10127
Quick Seal Foil PCR

Description

An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue.

Ordering

9095-10127-080LR	** Std	LabRoll™	1 Roll	200m	x	80mm
9095-10127-080SR	** Sterile	LabRoll™	1 Roll	200m	x	80mm
9095-10127-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
9095-10127-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
9095-10127-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Application

PCR and sample storage.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -40°C to 120°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Thin, Metallic, Reflective, White Liner.

Physical Properties

Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

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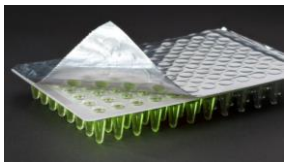

9095-10129
Quick Seal Foil PCR Ultra

Description

An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue.

Ordering

9095-10129-080LR	** Std	LabRoll™	1 Roll	150m	x	80mm
9095-10129-080SR	** Sterile	LabRoll™	1 Roll	150m	x	80mm
9095-10129-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
9095-10129-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
9095-10129-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Application

PCR and sample storage.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -40°C to 120°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Thin, Metallic, Reflective, White Liner.

Physical Properties

Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C.

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

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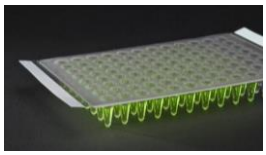

9095-10130
Quick Seal qPCR Ultra

Description

An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384well) fluorescence, crystallation, storage. A transparent nontacky film which adheres only when pressure is applied. It is pierceable and peelable. Good temperature and chemical resistance and withstands tough application environments. High Adhesion Strength.

Ordering

9095-10130-080LR	Standard	LabRoll™	1 Roll	100m	x	80mm
9095-10130-080SR	Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10130-080LS	Standard	LabSheet™	100 Sheets	140mm	x	80mm
9095-10130-080SS	Sterile	LabSheet™	100 Sheets	140mm	x	80mm
9095-10130-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm
9095-10130-080TR	Trial	LabSheet™	1 Roll	5m	x	80mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Application

qPCR (94 or 384 well) and situations where fluorescence is experienced.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -40°C to 110°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

Clear plastic, reflective, glossy on the top. Very thin and light and does not crease easily.

Physical Properties

Pressure sensitive adhesive tape, so the seal side does not feel sticky. Mainly used for bonding materials to various substrates. Temperature range: -40°C to +121°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme.
Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180°C peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

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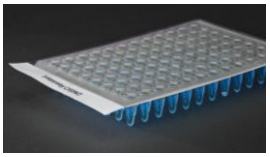

9095-10131
Quick Seal DMSO Standard

Description

A transparent, optically clear, DMSO resistant, non-tacky film, which adheres only when pressure is applied. It is non-pierceable and peel-able.

Ordering

9095-10131-080LR	Std	LabRoll™	1 Roll	100m	x	80mm
9095-10131-080SR	Sterile	LabRoll™	1 Roll	100m	x	80mm
9095-10131-080LS	* Std	LabSheet™	100 Sheets	140mm	x	80mm
9095-10131-080SS	* Sterile	LabSheet™	100 Sheets	140mm	x	80mm
9095-10131-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm

Compatibility

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Application

Micro-plate sealing containing solvents including DMSO.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -40°C to 80°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

A clear polypropylene DMSO resistant film, which is peel-able, but not pierceable.

Physical Properties

Temperature range: -40°C to +80°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: Pass
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme.
Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

Optical

Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180°C peel test. Equipment Instron 3343 Tensometer.

Low Temperature Seal Test

Confirming the materials ability to breath. Results: Pass
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: Pass**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

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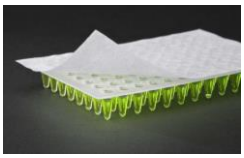

9095-10132
Quick Seal
Gas Perm Woven

Description

The Seal is Porous, Gas Permeable and a barrier to solid contaminants.

Ordering

9095-10132-080LR	** Std	LabRoll™	1 Roll	150m	x	80mm
9095-10132-080SR	** Sterile	LabRoll™	1 Roll	150m	x	80mm
9095-10132-115LR	*** VII Std	LabRoll™	1 Roll	150m	x	80mm
9095-10132-115SR	*** Sterile VII	LabRoll™	1 Roll	150m	x	115mm
9095-10132-080LS	* Std	LabSheet™	100 Sheets	125mm	x	80mm
9095-10132-080SS	* Sterile	LabSheet™	100 Sheets	125mm	x	80mm
9095-10132-080TR	Trial	LabRoll™	1 Roll	5m	x	80mm
9095-10132-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
9095-10132-080TS	Trial	LabSheet™	5 Sheets	125mm	x	80mm

Compatibility

Polypropylene (PP) Polystyrene (PS)

Application

Short term Incubation, agriculture and seed storage, Insect storage and Cell Culture.

Storage

Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

Properties

Temperature range -20°C to 80°C

Sealing

Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

Specifications

Visual Description

White Rayon Nonwoven Tape on Liner

Physical Properties

Temperature range: -40°C to +80°C

Test procedures

Mass Loss

Confirming the materials ability to resist high temperatures. Results: N/A
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

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Peel

Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

Porosity Bendsten

Confirming the materials ability to breath. Results: Pass
Details: Moisture Vapour Transmission—4200gms/m2/24hrs

Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) **Results: N/A**
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Plate Types

Polypropylene (PP) Polystyrene (PS)

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