

A100/A100PS

Peel ply

Ideally suited to aerospace applications

Features

- Porous nylon peel ply.
- Heat set and scoured, for use directly against laminates or bond lines.
- Imparts a coarse weave pattern upon removal from the laminate.
- Strips cleanly and quickly from most commercial resin systems.
- Available coated or non-coated depending on user requirement.
- Recommended for composite manufacture and metal bonding applications.
- CYTEC does not recommend the use of woven nylon fabrics with phenolic resin or prepreg systems as acid in the catalyst can break down nylon materials. Therefore, we recommend that customers conduct their own internal compatibility tests.

Properties

Maximum use temperature	204°C	400°F
Colour	A100: White A100PS: White with red tracer	
Fabric type	Nylon	
Fabric weight	75g/m ²	2.2oz/yd ²

Availability

Standard width	1.52m	60in
Standard length	100m	109yd

Slit widths available

Storage

No special storage conditions required.

Health & safety

Handling of these products must conform to individual company guidelines and health and safety regulations.

All statements, technical information and recommendations contained in this data sheet are given in good faith and are based on tests believed to be reliable, but their accuracy and completeness are not guaranteed. They do not constitute an offer to any person and shall not be deemed to form the basis of any subsequent contract. All products are sold subject to the Cytec's Standard Terms and conditions of Sale. Accordingly, the user shall determine the suitability of the products for their intended use prior to purchase and shall assume all risk and liability in connection therewith. It is the responsibility of those wishing to sell items made from or embodying the products to inform the user of the properties of the products and the purposes for which they may be suitable, together with all precautionary measures required in handling those products. The information contained herein is under constant review and liable to be modified from time to time.

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A100FLOGREEN

Peel ply

Ideally suited to the full range of composite processing applications

Features

- Porous nylon peel ply.
- Heat set and scoured, for use directly against laminates or bond lines.
- Imparts a coarse weave pattern upon removal from the laminate.
- Strips cleanly and quickly from most commercial resin systems.
- Product make-up identical to A100, but in fluorescent green for ease of identification on the cured laminate.
- Available coated and non-coated depending on user requirement.
- Recommended for composite manufacture and metal bonding applications.
- CYTEC does not recommend the use of woven nylon fabrics with phenolic resin or pre-preg systems as acid in the catalyst can break down nylon materials. Therefore, we recommend that customers conduct their own internal compatibility tests.

Product variants

Also available with self-adhesive backing (A100FLOGREENSA) with an adhesive weight of 35g/m² (1.03oz/yd²).

Properties

Maximum use temperature	204°C	400°F
Colour	Fluorescent green	
Fabric type	Nylon	
Fabric weight	75g/m ²	2.2oz/yd ²

Availability

Standard width	1.4 and 1.52m	55 and 60in
Standard length	50m	55yd
	Slit widths available	

Storage

No special storage conditions required.

Health & safety

Handling of these products must conform to individual company guidelines and health and safety regulations.

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A85PS

Peel ply

Ideally suited to phenolic resin applications

Features

- Porous, medium weight polyester fabric.
- Available coated and non-coated, depending on user requirement.
- No necessity to clean the surface before painting or subsequent bonding operation.
- Orange pin stripe for ease of identification on the cured laminate.
- Recommended for use with a wide range of resins, including phenolic resins.

Properties

Maximum use temperature	180°C	356°F
Colour	White with orange tracer	
Fabric type	Polyester	
Fabric weight	100g/m ²	2.95oz/yd ²

Availability

Standard width	1.52m	60in
Standard length	100m	109yd
Slit widths available		

Storage

No special storage conditions required.

Health & safety

Handling of these products must conform to individual company guidelines and health and safety regulations.

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B100

Peel ply

Ideally suited to a wide range of composite processing applications

Features

- Lightweight, porous nylon peel ply.
- Heat set and scoured, for use directly against laminates or bond lines, particularly where secondary bonding, painting or finishing is required.
- Imparts a fine weave pattern upon removal from the laminate.
- Strips cleanly and quickly from most commercial resin systems.
- Available coated and non-coated depending on user requirement.
- Recommended for composite manufacture and metal bonding applications.
- CYTEC does not recommend the use of woven nylon fabrics with phenolic resin or pre-preg systems as acid in the catalyst can break down nylon materials. Therefore, we recommend that customers conduct their own internal compatibility tests.

Properties

Maximum use temperature	204°C	400°F
Colour	White	
Fabric type	Nylon	
Fabric weight	58g/m ²	1.70oz/yd ²

Availability

Standard width	1.47m	58in
Standard length	100m	109yd
Slit widths available		

Storage

No special storage conditions required.

Health & safety

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D300

Peel ply

Ideally suited to aerospace applications

Features

- Porous, medium weight nylon 6.6 peel ply.
- Heat set and scoured, for use directly against laminates or bond lines.
- Available coated or non-coated depending on user requirement.
- Recommended for composite manufacture and metal bonding applications.
- Coloured pink for ease of detection and removal from the cured laminate.
- CYTEC does not recommend the use of woven nylon fabrics with phenolic resin or prepreg systems as acid in the catalyst can break down nylon materials. Therefore, we recommend that customers conduct their own internal capability tests.

Properties

Maximum use temperature	204°C	400°F
Colour	Pink	
Fabric type	Nylon	
Fabric weight	94g/m ²	2.81oz/yd ²

Availability

Standard width	1.52m	1.66yd
Standard length	100m	109yd

Slit widths available

Storage

No special storage conditions required.

Health & safety

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F400

Peel ply

Ideally suited to aerospace applications

Features

- Porous, heavy weight polyester peel ply.
- Heat set and scoured, for use directly against laminates or bond lines.
- Available coated and non-coated depending on user requirement.
- Recommended for use with phenolic prepregs. Also recommended for composite manufacture and metal bonding applications.
- Particularly recommended for use on high temperature (exceeding 180°C [356°F]), high pressure autoclave cures, where removal of lighter weight, untreated nylons and polyesters can be difficult and time consuming.
- Imparts a coarse weave pattern upon removal from the laminate.

Properties

Maximum use temperature	180°C	356°F
Colour	White	
Fabric type	Polyester	
Fabric weight	100g/m ²	2.95oz/yd ²

Availability

Standard width	1.52m	1.66yd
Standard length	100m	109yd
Slit widths available		

Storage

No special storage conditions required.

Health & safety

Handling of these products must conform to individual company guidelines and health and safety regulations.

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G500

Peel ply

Ideally suited to aerospace phenolic resin applications

Features

- Porous, medium weight polyester peel ply.
- Heat set and scoured, for use directly against laminates or bond lines.
- Available coated and non-coated, depending on user requirement.
- Recommended for composite manufacture and metal bonding applications.
- Coloured dark green for ease of detection on the cured laminate.
- Recommended for use with phenolic resins.
- Imparts a coarse weave pattern upon removal from the laminate.

Properties

Maximum use temperature	180°C	356°F
Colour	Dark green	
Fabric type	Polyester	
Fabric weight	94g/m ²	2.81oz/yd ²

Availability

Standard width	1.52m	1.66yd
Standard length	100m	109yd
	Slit widths available	

Storage

No special storage conditions required.

Health & safety

Handling of these products must conform to individual company guidelines and health and safety regulations.

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PRECISION FABRICS GROUP

NYLON PEEL / RELEASE PLY

Code: **51789** Style: **52006**

Code 51789 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 51789 100% nylon 6,6 fiber melts at approximately 480°F (249°C). The fabric is not recommended for phenolic systems. The fabric leaves a fine surface impression for priming and secondary bonding. It is available in precision slit widths of 56 inches or less.

Code 51789 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
 - FIN 062 – IO** International Orange for easy identification
 - FIN 065 – VLP** Very Low Porosity finish
- Identification Printing available**

Code 51789 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*
- FIN 063 – GFR** A cross-linked, low transfer fluorocarbon finish for ease of release

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	58 in	147.3 cm	(min)
ROLL LENGTH			
	300 yd	274.3 m	(max)
WEIGHT			
ASTM-D-3776	1.85 oz/yd ² (min)	62.7 g/m ²	(min)
FINISHED COUNT			
ASTM-D-3775	WARP 160 ends/in	63.0 ends/cm	(min)
	FILL 103 picks/in	40.6 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 110 lb/in	489.5 Newtons	(min)
(Grab)	FILL 130 lb/in	578.5 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.0045 – 0.0055 in	0.114 – 0.140 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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PRECISION FABRICS GROUP

NYLON PEEL / RELEASE PLY

Code: **52008** Style: **56115**

Code 52008 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 52008 100% nylon 6,6 fiber melts at approximately 480°F (249°C). The fabric is not recommended for phenolic systems. The fabric leaves a fine surface impression for priming and secondary bonding. It is available in precision slit widths of 56 inches or less.

Code 52008 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
- FIN 065 – VLP** Very Low Porosity finish

Code 52008 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*
- FIN 067 – SRG** Super Release Green *An inert, heat stabilized, cross-linked polymer finish for marine*

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	58 in	147.3 cm	(min)
ROLL LENGTH			
	300 yd	274.3 m	(max)
WEIGHT			
ASTM-D-3776	1.7 oz/yd ² (min)	57.6 g/m ²	(min)
FINISHED COUNT			
ASTM-D-3775	WARP 101 ends/in	39.8 ends/cm	(min)
	FILL 82 picks/in	32.3 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 115 lb/in	511.8 Newtons	(min)
(Grab)	FILL 105 lb/in	467.3 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.004 – 0.005 in	0.102 – 0.127 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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PRECISION FABRICS GROUP

NYLON PEEL / RELEASE PLY

Code: **41661** Style: **56137**

Code 41661 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 41661 100% nylon 6,6 fiber melts at approximately 480°F (249°C). The fabric is not recommended for phenolic systems. The fabric leaves a rough surface impression for priming and secondary bonding. It is available in precision slit widths of 56 inches or less.

Code 41661 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
- FIN 062 – IO** International Orange for easy identification

Code 41661 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*
- FIN 063 – GFR** A cross-linked, low transfer fluorocarbon finish for ease of release

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	58 in	147.3 cm	(min)
ROLL LENGTH			
	300 yd	274.3 m	(max)
WEIGHT			
ASTM-D-3776	3.0 oz/yd ² (min)	101.7 g/m ²	(min)
FINISHED COUNT			
ASTM-D-3775	WARP 60 ends/in	23.6 ends/cm	(min)
	FILL 50 picks/in	19.7 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 210 lb/in	934.5 Newtons	(min)
(Grab)	FILL 170 lb/in	756.5 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.0065 – 0.0075 in	0.165 – 0.191 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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PRECISION FABRICS GROUP

NYLON PEEL / RELEASE PLY

Code: **40000** Style: **56180**

Code 40000 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. This product is primarily designed for BMI resins and extended autoclave cycles. Code 40000 100% nylon 6,6 fiber melts at approximately 480°F (249°C). The fabric is not recommended for phenolic systems. The fabric leaves a rough surface impression for priming and secondary bonding. It is available in precision slit widths of 58 inches or less.

Code 40000 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
- FIN 065 – VLP** Very Low Porosity finish

Code 40000 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	60 in	152.4 cm	(min)
ROLL LENGTH			
	300 yd	274.3 m	(max)
WEIGHT			
ASTM-D-3776	3.7 oz/yd ² (min)	125.4 g/m ²	(min)
FINISHED COUNT			
ASTM-D-3775	WARP 76 ends/in	29.9 ends/cm	(min)
	FILL 51 picks/in	20.1 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 300 lb/in	1335 Newtons	(min)
(Grab)	FILL 230 lb/in	1024 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.0075 – 0.0085 in	0.191 – 0.216 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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PRECISION FABRICS GROUP

POLYESTER PEEL / RELEASE PLY

Code: **60001** Style: **56009**

Code 60001 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 60001, 100% polyester fiber melts at approximately 480°F (249°C) and is resistant to phenolic resin system degradation. The fabric leaves a medium surface impression for priming and secondary bonding. It is available in precision slit widths of 58 inches or less.

Code 60001 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
 - FIN 062 – IO** International Orange for easy identification
 - FIN 065 –VLP** Very Low Porosity finish
- Identification Printing available**

Code 60001 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	60 in	152.4 cm	(min)
ROLL LENGTH			
	300 yd	274.3 m	(max)
WEIGHT			
ASTM-D-3776	2.5 oz/yd ²	84.8 g/m ²	(min)
FINISHED COUNT			
ASTM-D-3775	WARP 70 ends/in	27.6 ends/cm	(min)
	FILL 50 picks/in	19.7 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 155 lb/in	689.8 Newtons	(min)
(Grab)	FILL 120 lb/in	534.0 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.005 – 0.006 in	0.127 – 0.152 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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PRECISION FABRICS GROUP

POLYESTER PEEL / RELEASE PLY

Code: **60002** Style: **56030**

Code 60002 is similar to 60001 except it contains black identification stripes for easy visibility. Code 60002 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 60002, 100% polyester fiber melts at approximately 480°F (249°C) and is resistant to phenolic resin system degradation. The fabric leaves a medium surface impression for priming and secondary bonding. It is available in precision slit widths of 58 inches or less.

Code 60002 Peel Ply is available in:

- FIN 060 – NAT** Scoured and Heat-Set finish
- FIN 062 – IO** International Orange for easy identification
- FIN 065 – VLP** Very Low Porosity finish

Code 60002 Release Ply is available in:

- FIN 061 – SRB** Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*

		US	Metric	
ROLL WIDTH				
ASTM-D-3774		60 in	152.4 cm	(min)
ROLL LENGTH				
		300 yd	274.3 m	(max)
WEIGHT				
ASTM-D-3776		2.5 oz/yd ² (min)	84.8 g/m ²	(min)
FINISHED COUNT				
ASTM-D-3775	WARP	70 ends/in	27.6 ends/cm	(min)
	FILL	50 picks/in	19.7 picks/cm	(min)
TENSILE STRENGTH				
ASTM-D-5034	WARP	155 lb/in	689.8 Newtons	(min)
(Grab)	FILL	120 lb/in	534.0 Newtons	(min)
THICKNESS				
ASTM-D-1777		0.005 – 0.006 in	0.127 – 0.152 mm	
pH				
AATCC-81		4.5 – 7.0		
EXTRACTABLE MATERIALS				
ASTM-D-2257		0.5 %		(max)
(Petroleum Ether)				

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PRECISION FABRICS GROUP

POLYESTER PEEL / RELEASE PLY

Code: **60004** Style: **56111**

Code 60004 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 60004, 100% polyester fiber melts at approximately 480°F (249°C) and is resistant to phenolic resin system degradation. The fabric leaves a fine surface impression for priming and secondary bonding. It is available in precision slit widths of 58 inches or less.

Code 60004 Peel Ply is available in:

FIN 060 – NAT	Scoured and Heat-Set finish
FIN 064 – LP	Low Porosity finish
FIN 065 – VLP	Very Low Porosity finish

Code 60004 Release Ply is available in:

FIN 061 – SRB	Super Release Blue <i>An inert, heat stabilized, cross-linked polymer finish</i>
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		US	Metric	
ROLL WIDTH				
ASTM-D-3774		60 in	152.4 cm	(min)
ROLL LENGTH				
		300 yd	274.3 m	(max)
WEIGHT				
ASTM-D-3776		2.4 oz/yd ² (min)	81.4 g/m ²	(min)
FINISHED COUNT				
ASTM-D-3775	WARP	120 ends/in	47.2 ends/cm	(min)
	FILL	59 picks/in	23.2 picks/cm	(min)
TENSILE STRENGTH				
ASTM-D-5034	WARP	130 lb/in	578.5 Newtons	(min)
(Grab)	FILL	160 lb/in	712.0 Newtons	(min)
THICKNESS				
ASTM-D-1777		0.0045 – 0.0055 in	0.114 – 0.140 mm	
pH				
AATCC-81		4.5 – 7.0		
EXTRACTABLE MATERIALS				
ASTM-D-2257		0.5 %		(max)
(Petroleum Ether)				

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PRECISION FABRICS GROUP

POLYESTER PEEL / RELEASE PLY

Code: **60005** Style: **56116**

Code 60005 is designed for vacuum bag lay-up composites and metal-to-metal bonding structures. Code 60005, 100% polyester fiber melts at approximately 480°F (249°C) and is resistant to phenolic resin system degradation. The fabric leaves a medium surface impression for priming and secondary bonding. It is available in precision slit widths of 58 inches or less.

Code 60005 Peel Ply is available in:

FIN 060 – NAT Scoured and Heat-Set finish

FIN 065 –VLP Very Low Porosity finish

Identification Printing available

Code 60005 Release Ply is available in:

FIN 061 – SRB Super Release Blue *An inert, heat stabilized, cross-linked polymer finish*

		US	Metric	
ROLL WIDTH				
ASTM-D-3774		60 in	152.4 cm	(min)
ROLL LENGTH				
		300 yd	274.3 m	(max)
WEIGHT				
ASTM-D-3776		3.2 oz/yd ² (min)	108.5 g/m ²	(min)
FINISHED COUNT				
ASTM-D-3775	WARP	90 ends/in	35.4 ends/cm	(min)
	FILL	58 picks/in	22.8 picks/cm	(min)
TENSILE STRENGTH				
ASTM-D-5034	WARP	185 lb/in	823.3 Newtons	(min)
(Grab)	FILL	140 lb/in	623.0 Newtons	(min)
THICKNESS				
ASTM-D-1777		0.006 – 0.007 in	0.152 – 0.178 mm	
pH				
AATCC-81		4.5 – 7.0		
EXTRACTABLE MATERIALS				
ASTM-D-2257		0.5 %		(max)
(Petroleum Ether)				

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PRECISION FABRICS GROUP

NON-WOVEN POLYESTER BLEEDER/BREATHER

Code: **4819** Style: **700-0005**

Code 4819 is a 100% polyester, binder and foam free, nonwoven fabric. It exhibits outstanding elongation drapability and high stretch properties. Its high stretch and absorptive qualities reduce bridging on complex contour surfaces. Code 4819 properties are recommended where multiple layers are needed to achieve the proper resin-to-fiber ratio. Code 4819 is not a release fabric. It should be used with a suitable Precision Fabrics peel ply release fabric. Code 4819 has a melting point of approximately 480°F (249°C).

	<i>US</i>	<i>Metric</i>	
ROLL WIDTH			
ASTM-D-3774	48 in	121.9 cm	(min)
	96 in	243.8 cm	(min)
	144 in	365.8 cm	(min)
ROLL LENGTH	250 yd ± 10%	228.6 m ± 10%	
WEIGHT			
ASTM-D-3776	1.8 oz/yd ² (min)	61.0 g/m ²	(min)
TENSILE STRENGTH			
INDA 110.1	MD	23 lb/in	102.4 Newtons
(Grab)	XD	18 lb/in	80.1 Newtons
THICKNESS			
ASTM-D-1777	0.017 in	0.432 mm	
CONSTRUCTION	Non-Apertured		

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PRECISION FABRICS GROUP

DUPONT™ KEVLAR® PEEL PLY

Code: **70000** Style: **57017**

DuPont™ KEVLAR® aramid peel ply release fabric is designed for high temperature applications up to 800°F (427°C).

	US	Metric	
ROLL WIDTH			
ASTM-D-3774	50 in	127.0 cm	(min)
ROLL LENGTH			
	1 – 100 yd	0.914 – 91.4 m	
WEIGHT			
ASTM-D-3776	3.2 oz/yd ² (min)	108.5 g/m ²	
FINISHED COUNT			
ASTM-D-3775	WARP 68 ends/in	26.8 ends/cm	(min)
	FILL 52 picks/in	20.5 picks/cm	(min)
TENSILE STRENGTH			
ASTM-D-5034	WARP 300 lb/in	1335 Newtons	(min)
(Grab)	FILL 300 lb/in	1335 Newtons	(min)
THICKNESS			
ASTM-D-1777	0.0050 – 0.0065 in	0.127 – 0.165 mm	
pH			
AATCC-81	4.5 – 7.0		
EXTRACTABLE MATERIALS			
ASTM-D-2257	0.5 %		(max)
(Petroleum Ether)			

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