

Miscellaneous Properties of Transition Tyvek® 1073B and 1059B — English

Property	Comparable Standard Test Method	Units	Typical Values	
			Transition Tyvek® 1073B	Transition Tyvek® 1059B
Microbial Barrier	ASTM F1608	LRV	>5	>4
	ASTM F2638	% pMax	<0.3	<0.5
Bendtsen Air Permeability	ISO 5636-3	mL/min	540	540
Moisture Vapor Transmission Rate	TAPPI T523 ¹	g/m ² /24 hr	>1600	>1600
Hydrostatic Head	AATCC TM 127 ²	in. H ₂ O	62	61
Tensile Strength, MD	EN ISO 1924-2 ³	lb _f	46	39
Tensile Strength, CD	EN ISO 1924-2 ³	lb _f	49	42
Elongation, MD	EN ISO 1924-2 ³	%	20	19
Elongation, CD	EN ISO 1924-2 ³	%	24	23
Elmendorf Tear, MD	ASTM D1424	lb _f	0.7	0.7
Elmendorf Tear, CD	ASTM D1424	lb _f	0.9	0.8
Mullen Burst	ISO 2758	psi	175	149
Spencer Puncture	ASTM D3420 ⁴	in.-lb _f /in. ²	55	42
Opacity	ISO 2471 ⁵	%	92	92
Thickness (Individual)	EN ISO 534 ⁶	mils	7.8	7.0

NOTES: Transition Tyvek® 1073B and 1059B typical values represent data across different line and polymer combinations from all manufacturing campaigns done before November 2015. Values will be refreshed, as necessary, upon data collection from additional campaigns and long-term variability discernment. Miscellaneous properties represent typical values based on roll averages, except for thickness (individual), with samples taken uniformly across the sheet. Thickness (individual) typical values are based on a population of pooled individual data points from multiple rolls. Miscellaneous properties are not controlled in the process, and therefore, are subject to slight changes from “normal” process drift. Customers must conduct their own tests to ensure suitability for the intended application. These properties are representative for uncoated Transition Tyvek® as sold by DuPont. Any downstream operations, such as coatings applied by sterile packaging manufacturers (SPMs), may change these values. See [aligned test methods](#).

MD = machine direction; CD = cross direction; LRV = log reduction value

1. Test conditions: 73°F (23°C), 85% RH.
2. Rate of use: 60 cm H₂O/min.
3. Modified for speed, sample width (1 in.) and gauge length.
4. Modified for ⁹/₁₆-in. (14.28-mm) probe.
5. Modified for different backing standards, area and illumination.
6. Surface 2 cm², pressure 14.5 psi (50 kPa).

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Miscellaneous Properties of Transition Tyvek® 1073B and 1059B – Metric

Property	Comparable Standard Test Method	Units	Typical Values	
			Transition Tyvek® 1073B	Transition Tyvek® 1059B
Microbial Barrier	ASTM F1608	LRV	>5	>4
	ASTM F2638	% pMax	<0.3	<0.5
Bendtsen Air Permeability	ISO 5636-3	mL/min	540	540
Moisture Vapor Transmission Rate	TAPPI T523 ¹	g/m ² /24 hr	>1600	>1600
Hydrostatic Head	AATCC TM 127 ²	cm H ₂ O	157	155
Tensile Strength, MD	EN ISO 1924-2 ³	N	205	174
Tensile Strength, CD	EN ISO 1924-2 ³	N	219	185
Elongation, MD	EN ISO 1924-2 ³	%	20	19
Elongation, CD	EN ISO 1924-2 ³	%	24	23
Elmendorf Tear, MD	ASTM D1424	N	3.2	3.0
Elmendorf Tear, CD	ASTM D1424	N	4.0	3.8
Mullen Burst	ISO 2758	kPa	1207	1027
Spencer Puncture	ASTM D3420 ⁴	J/m ²	9632	7355
Opacity	ISO 2471 ⁵	%	92	92
Thickness (Individual)	EN ISO 534 ⁶	µm	199	178

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MD = machine direction; CD = cross direction; LRV = log reduction value

1. Test conditions: 73°F (23°C), 85% RH.
2. Rate of use: 60 cm H₂O/min.
3. Modified for speed, sample width (2.54 cm) and gauge length.
4. Modified for ⁹/₁₆-in. (14.28-mm) probe.
5. Modified for different backing standards, area and illumination.
6. Surface 2 cm², pressure 14.5 psi (50 kPa).

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