

# Miscellaneous properties of Transition Tyvek® 1073B and 1059B

Property	Comparable standard test method	Units	Typical values	
			Transition Tyvek® 1073B	Transition Tyvek® 1059B
<b>Product specifications (English units)</b>				
Microbial barrier	ASTM F1608	LRV	~ 5	~ 4
	ASTM F2638	% pMax	~ 1%	~ 1%
Bendtsen air permeability	ISO 5636-3	mL/min	540	540
Moisture vapor transmission rate	TAPPI T523 <sup>1</sup>	g/m <sup>2</sup> /24 hr	>1600	>1600
Hydrostatic head	AATCC TM 127 <sup>2</sup>	in. H <sub>2</sub> O	62	61
Tensile strength, MD	EN ISO 1924-2 <sup>3</sup>	lb <sub>f</sub>	46	39
Tensile strength, CD	EN ISO 1924-2 <sup>3</sup>	lb <sub>f</sub>	49	42
Elongation, MD	EN ISO 1924-2 <sup>3</sup>	%	20	19
Elongation, CD	EN ISO 1924-2 <sup>3</sup>	%	24	23
Elmendorf tear, MD	ASTM D1424	lb <sub>f</sub>	0.7	0.7
Elmendorf tear, CD	ASTM D1424	lb <sub>f</sub>	0.9	0.8
Mullen burst	ISO 2758	psi	175	149
Spencer puncture	ASTM D3420 <sup>4</sup>	in.-lb <sub>f</sub> /in. <sup>2</sup>	55	42
Opacity	ISO 2471 <sup>5</sup>	%	92	92
Thickness (individual)	EN ISO 534 <sup>6</sup>	mils	7.8	7.0

**Notes:** Transition Tyvek® 1073B and 1059B typical values represent data across different line and polymer combinations. 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 H<sub>2</sub>O/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 cm<sup>2</sup>, pressure 14.5 psi (50 kPa).



[medicalpackaging.dupont.com](https://medicalpackaging.dupont.com)  
[medicalpackaging.dupont.com/linkedin](https://medicalpackaging.dupont.com/linkedin)  
**1 800 44 TYVEK**

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information. It is intended for use by persons having technical skill for evaluation under their specific end-use conditions at their own discretion and risk. Since conditions of use are outside our control, **DuPont makes no warranties, expressed or implied, including without limitations, no warranties of merchantability or fitness for a particular use and assumes no liability in connection with any use of this information.** This information is not intended as a license to operate under or a recommendation to infringe any patent, trademark or technical information of DuPont or others covering any material or its use. DuPont™, the DuPont Oval Logo, and all products, unless otherwise noted, denoted with ™, SM or ® are trademarks, service marks or registered trademarks of affiliates of DuPont de Nemours, Inc. Copyright © 2020 DuPont de Nemours, Inc. All rights reserved (07/20). The DuPont Oval Logo, DuPont™, For Greater Good™ and Tyvek® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates.

# Miscellaneous properties of Transition Tyvek® 1073B and 1059B

Property	Comparable standard test method	Units	Typical values	
			Transition Tyvek® 1073B	Transition Tyvek® 1059B
<b>Product specifications (metric units)</b>				
Microbial barrier	ASTM F1608	LRV	~ 5	~ 4
	ASTM F2638	% pMax	~ 1%	~ 1%
Bendtsen air permeability	ISO 5636-3	mL/min	540	540
Moisture vapor transmission rate	TAPPI T523 <sup>1</sup>	g/m <sup>2</sup> /24 hr	>1600	>1600
Hydrostatic head	AATCC TM 127 <sup>2</sup>	cm H <sub>2</sub> O	157	155
Tensile strength, MD	EN ISO 1924-2 <sup>3</sup>	N	205	174
Tensile strength, CD	EN ISO 1924-2 <sup>3</sup>	N	219	185
Elongation, MD	EN ISO 1924-2 <sup>3</sup>	%	20	19
Elongation, CD	EN ISO 1924-2 <sup>3</sup>	%	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 <sup>4</sup>	J/m <sup>2</sup>	9632	7355
Opacity	ISO 2471 <sup>5</sup>	%	92	92
Thickness (individual)	EN ISO 534 <sup>6</sup>	µm	199	178

**Notes:** Transition Tyvek® 1073B and 1059B typical values represent data across different line and polymer combinations. 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 H<sub>2</sub>O/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 cm<sup>2</sup>, pressure 14.5 psi (50 kPa).



[medicalpackaging.dupont.com](https://medicalpackaging.dupont.com)  
[medicalpackaging.dupont.com/linkedin](https://medicalpackaging.dupont.com/linkedin)  
**1 800 44 TYVEK**

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information. It is intended for use by persons having technical skill for evaluation under their specific end-use conditions at their own discretion and risk. Since conditions of use are outside our control, **DuPont makes no warranties, expressed or implied, including without limitations, no warranties of merchantability or fitness for a particular use and assumes no liability in connection with any use of this information.** This information is not intended as a license to operate under or a recommendation to infringe any patent, trademark or technical information of DuPont or others covering any material or its use. DuPont™, the DuPont Oval Logo, and all products, unless otherwise noted, denoted with ™, SM or ® are trademarks, service marks or registered trademarks of affiliates of DuPont de Nemours, Inc. Copyright © 2020 DuPont de Nemours, Inc. All rights reserved (07/20). The DuPont Oval Logo, DuPont™, For Greater Good™ and Tyvek® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates.