

DUPONT™ TYVEK® FOR MEDICAL AND PHARMACEUTICAL PACKAGING MISCELLANEOUS PROPERTIES (METRIC)

Table I. Miscellaneous properties of DuPont™ Tyvek® (metric units)

Property	Comparable Test Method	Units	Tyvek® 1073B	Typical Values		
				Tyvek® Asuron™	Tyvek® 1059B	Tyvek® 2FS™
Microbial Barrier	ASTM F1608	Log Reduction Value (LRV)	5.2	4.7	4.7	3.2
Bendtsen Air Permeability	ISO 5636-3	mL/min	572	520	671	600
Moisture Vapor Transmission Rate	TAPPI T523 ¹	g/m ² /24 hr	1615	>1500	1640	>1500
Hydrostatic Head	AATCC TM 127 EN 20811 ²	cm H ₂ O	147	150	145	150
Tensile Strength, MD	ASTM D5035 ³ EN ISO 1924-2 ³	N/2.54 cm	196	178	169	156
Tensile Strength, CD	ASTM D5035 ³ EN ISO 1924-2 ³	N/2.54 cm	200	185	169	160
Elongation, MD	ASTM D5035 ³ EN ISO 1924-2 ³	%	20	18	19	18
Elongation, CD	ASTM D5035 ³ EN ISO 1924-2 ³	%	24	21	23	21
Elmendorf Tear, MD	ASTM D1424 EN 21974	N	3.3	3.7	2.8	2.7
Elmendorf Tear, CD	ASTM D1424 EN 21974	N	3.5	4.3	3.0	3.5
Mullen Burst	ASTM D774 ISO 2758	kPa	1213	1030	1055	900
Spencer Puncture	ASTM D3420 ⁴	J/m ²	8756	7180	6830	4903
Opacity	TAPPI T425 ISO 2471 ⁵	%	91	96	89	94
Thickness (Individual)	ASTM D1777 ⁶ EN 20534 ⁷ EN ISO 534	µm	178	180	157	155

Notes: 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 Tyvek® as sold by DuPont. Any downstream operations, such as coatings applied by sterile packaging manufacturers (SPMs), may change these values.

MD = machine direction; CD = cross direction.

1. Test conditions: 23°C, 85% RH.
2. Rate of use: 60 cm H₂O/min.
3. Modified for speed and gauge length.
4. Modified for 3/16-in. (14.28-mm) probe.
5. Modified for different backing standards, area and illumination.
6. 7.15 psi, 0.625-in. diameter presser foot.
7. Surface 2 cm², pressure 14.5 psi (100 kPa).

For more information about DuPont™ Tyvek® for medical and pharmaceutical packaging and to find out how we can help you with packaging and regulatory compliance, call us today at 1.800.44.TYVEK or visit us at www.MedicalPackaging.DuPont.com.



The miracles of science™

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, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATIONS, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE AND ASSUME 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 or technical information of DuPont or others covering any material or its use.

Copyright © 2011 DuPont. All rights reserved. The DuPont Oval Logo, DuPont™, The miracles of science™, Tyvek®, Tyvek® Asuron™ and Tyvek® 2FS™ are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. (11/11)