

Table I. Specification and other properties of styles of Tyvek® protective material.

Property	Test Method	Units	Tyvek® 1073B	Tyvek® Asuron™	Tyvek® 1059B	Tyvek® 2FS™
SPECIFICATION PROPERTIES *						
Basis Weight*	ASTM D3776 ¹ DIN EN ISO 536 ¹	oz/yd ² (g/m ²)	2.20 (74.6)	2.00 67.8	1.90 (64.4)	1.76 (59.5)
Delamination*	ASTM D2724 ²	lb/in. (N/2.54 cm)	0.52 (2.3)	0.56 (2.31)	0.50 (2.2)	0.61 (2.7)
Gurley Hill Porosity*	TAPPI T460 ISO 5636-5	sec/100 cc	22	22	22	22
OTHER PROPERTIES						
Bendtsen Air Permeability	ISO 5636-3 ³	mL/min	609	575	638	520
Hydrostatic Head	AATCC TM 127 DIN EN 20811 ⁵	in. H ₂ O (cm H ₂ O)	59 (150)	61 (155)	56 (142)	57 (145)
Tensile Strength, MD	ASTM D5035 ⁶ DIN EN ISO 1924-2 ⁶	lb/in. (N/2.54 cm)	43.4 (193)	38.1 (170)	36.6 (163)	35.1 (156)
Tensile Strength, CD	ASTM D5035 ⁶ DIN EN ISO 1924-2 ⁶	lb/in. (N/2.54 cm)	46.8 (208)	44.4 (198)	39.2 (174)	35.3 (157)
Elmendorf Tear, MD	ASTM D1424 DIN EN 21974	lb (N)	0.77 (3425)	0.87 (3872)	0.67 (2980)	0.63 (2.8)
Elmendorf Tear, CD	ASTM D1424 DIN EN 21974	lb (N)	0.79 (3514)	0.99 (4406)	0.72 (3203)	0.83 (3.7)
Mullen Burst	ASTM D774 ISO 2758	psi (kPa)	178 (1227)	153 (1054)	153 (1055)	134 (925)
Thickness	ASTM D1777 ⁷ DIN EN 20534 ⁸	mils (µm)	7.3 (185)	7.1 (180)	6.5 (165)	6.11 (155)
Opacity	TAPPI T425 ISO 2471 ⁹	%	92.4	96.9	90.7	94.3
MISCELLANEOUS PROPERTIES						
Microbial Barrier	ASTM F1608	Log Reduction Value (LRV)	5.2	4.7	4.7	3.2
Moisture Vapor Transmission Rate	TAPPI T523 ⁴	g/m ² /24 hr	1615	1680	1640	>1500
Elongation, MD	ASTM D5035 ⁶ DIN EN ISO 1924-2 ⁶	%	22	20.1	21	23
Elongation, CD	ASTM D5035 ⁶ DIN EN ISO 1924-2 ⁶	%	26	23.6	26	28
Thickness Range	ASTM D1777 ⁷ DIN EN 20534 ⁸	mils (4 sigma) (µm) (4 sigma)	3.5-11.1 (89-282)	3.2-10.9 (81-277)	2.9-10.1 (74-257)	2.8-9.1 (70-230)

*Specification property (controlled to aim and released within specifications). The customer is responsible for determining that Tyvek® is suitable for the intended application.

Notes: All properties are typical values based on roll averages, with samples taken uniformly across the sheet. 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.

1. Modified sample size.
2. For Tyvek® 2FS™, test was modified for speed and gauge length.
3. ΔP = 0.22 psi (1.5 kPa), area 10 cm².
4. Test conditions: 73°F (23°C)/85% relative humidity.
5. Rate of use: 60 cm H₂O/min.
6. Modified for speed and gauge length.
7. 7.15 psi, 0.625-in. diameter presser foot.
8. Surface 2 cm², pressure 14.5 psi (100 kPa).
9. Modified for different backing standards, area and illumination.

MD = machine direction; CD = cross direction.