


Product Name: TPU 2013

TPU coated membrane based on Nylon fabric, both sides of the product are coated.

Properties		Typical Characteristics	
Test & Method		English	Metric
Base Fabric Fed. Std. 191A:5050		Nylon 210 Den 3.5 [Oz/yd ²]	Nylon 235 Dtx 118 [gr/m ²]
Weave Density Fed. Std. 191A:4021		66 / 56 [yarn/inch]	26 / 22 [yarn/cm]
Total Weight ASTM D 751, Fed. Std. 191A:5041, BS 3424		12.8 [Oz/yd ²]	435 [gr/m ²]
Width[s] Fed. Std. 191A:5020		59, 81 [inches]	150, 205 [cm]
Breaking Strength - Strip ASTM D 751 method B, Fed. Std. 191A:5102		138 / 117 [lbs/inch]	1,214 / 1,027 [N/5 cm]
Breaking Strength - Grab ISO 13934 – 2, ASTM D 5034		246 / 209 [lbs]	1,094 / 930 [N]
Tear Strength – Single rip ISO 4674/B		2.2 / 2.2 [lbs]	10 / 10 [N]
Tear Strength – Double rip ISO 4674/A		4.4 / 4.4 [lbs]	19.6 / 19.6 [N]
Adhesion (HF Welding) ASTM D 751, ISO 2411, BS 3424		16.8 / 16.8 [lbs/inch]	150 / 150 [N/50mm]
Flame Resistance ISO 3795 - FMVSS 302		≤ 3.94 inch/min	≤ 100 mm/min
Working Temperature ASTM D 2136, DIN 53361, ISO 4675		158°F to -76°F	70°C to -60°C
Resistance to flex cracking ISO 7854 Method A		Min.9,000 cycles with No damage	
Air Porosity B.S 6F 100 clause 3.17		Pass (10 minutes, 7 psi)	
Blocking Resistance BS 3424, ASTM D 751 / 70°C (160°F) 6 hrs.		# 1	

PROP 65: The product does not require a warning label in accordance with proposition 65:2018, as the product does not contain a listed substance or/and is under the NSRL "Safe Harbor" levels.


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Surface Resistivity ASTM D 257		$10^9 - 10^{11} [\Omega / sq]$	
Gas Permeability Mil T 52983 Para. 4.5.2.12 / Diesel fuel		0.011 [fl Oz/ ft ² x day]	3.535 [gr/ m ² x day]
Gas Permeability Mil T 52983 Para. 4.5.2.12 / JP8		0.011 [fl Oz/ ft ² x day]	3.535 [gr/ m ² x day]
Gas Permeability Mil T 52983 Para. 4.5.2.12 / JP10		0.002 [fl Oz/ ft ² x day]	0.598 [gr/ m ² x day]



We believe this information is the best currently available. This product data sheet is subject to revisions once additional know-how is gained. We make no guarantee of results and assume no obligation liability whatsoever in connection with this information