


Product Name: TPU 2105
Polyurethane Coated both sides membrane, Nylon fabric, Weathering Resistance.
End Use: Collapsible Fuel Tanks

Complies with: MIL-T-52983F, MIL-PRF-32233B.

Properties Test & Method	Typical Characteristics	
	English	Metric
Base Fabric	Nylon 840 Den 9.5 [Oz/yd ²]	Nylon 940 Dtx 320 [gr/m ²]
Total Weight ASTM D 751	30 [Oz/yd ²]	1020 [gr/m ²]
Breaking Strength - Strip ASTM D 751 method B - Dry	540 / 540 [lbs/inch]	4850 / 4850 [N/5 cm]
Breaking Strength - Strip ASTM D 751 method B - After Diesel Fuel (14 days @ 160°F / 70°C)	425 / 425 [lbs/inch]	3850 / 3850 [N/5 cm]
Breaking Strength - Grab ASTM D 751 Method A	880 / 880 [lbs]	4000 / 4000 [N]
Tear Strength - Single Rip ASTM D 751 method B, DIN 53356	35 / 35 [lbs]	160 / 160 [N]
Tear Strength - Double Rip ISO 4674	50 / 60 [lbs]	230 / 280 [N]
Tear Strength - Trapez DIN 53363	80 / 100 [lbs]	350 / 450 [N]
Coating Adhesion (HF welding) ASTM D 751	56 / 56 [lbs/inch]	500 / 500 [N/5 cm]
Cold Crack / Bend ASTM D 2136	-58°F	-50°C
Puncture ASTM D 751 (Screwdriver)	150 [lbs]	680 [N]
Blocking Resistance ASTM D 751	#1	
Diffusion Rate with JP-8 & Diesel fuel As stated in Mil T 52983 Para. 4.5.2.12	0.12 FL [Oz/ft ² /24hr]	36.6 [gr/m ² /24hr]