



## Product Name: TPU 2051

**Aliphatic TPU, 100% Polyurethane coating, excellent antibacterial and hydrolytic resistance, Low temperature resistance.**

**End Use:** Flexitanks, Boats.

Properties	Typical Characteristics	
Test & Method	English	Metric
Base Fabric	Polyester 1500 Den 14.5 [Oz/yd²]	Polyester 1,670 Dtx 490 [gr/m²]
Total Weight ASTM D 751	40 [Oz/yd²]	1360 [gr/m²]
Breaking Strength - Strip ASTM D 751 method B	780 / 670 [lbs/inch]	7000 / 6000 [N/5 cm]
Tear Strength - Single Rip ASTM D 751 method B, DIN 53356	44 / 44 [lbs]	200 / 200 [N]
Tear Strength - Double Rip ISO 4674	80 / 100 [lbs]	350 / 450 [N]
Tear Strength - Trapez DIN 53363	120 / 120 [lbs]	550 / 550 [N]
Coating Adhesion (HF welding) ASTM D 751	56 / 56 [lbs/inch]	500 / 500 [N/5 cm]
Puncture Resistance Fed. Std. 101-2031	440 [lbs]	2000 [N]
Abrasion Resistance (Taber H-22 Wheel 1 Kg load) ASTM D 3389	<5 mg / 1000 cycles >30,000 cycles to expose the fabric	
Air Porosity B.S. 4F 100 Clause 32.1	Pass (10 min at 7 psi)	
Blocking Resistance ASTM D 751- 70°C (160°F) 6 hrs.	#1	
Fungus Growth MIL-STD 810F Method 508.5	Rate 0 (No fungus growth)	
Cold Crack / Bend Din 53361	-58°F	-50°C