

Product Name: TPU 2051

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

End Use: Flexitanks, Boats.

| Properties Test & Method | Typical Characteristics | |
|---|--|---|
| | English | Metric |
| Base Fabric | Polyester 1500 Den 14.5 [Oz/yd ²] | Polyester 1,670 Dtx 490 [gr/m ²] |
| Total Weight ASTM D 751 | 40 [Oz/yd ²] | 1360 [gr/m ²] |
| 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 |