

Product Name: TPU 2003

TPU both sides coated membrane, Nylon fabric.

Certified in accord to: LSA Code, Regulations I/1.2 and IV/4.2. IMO Resolution **MSC. 81 (70)** Part 1.

Compliance with: Inflatable boats **ISO 6185**

Spec. Para.	Properties	Requirements	Results
7.	Base Fabric, Type	-	Nylon
7.1	Base Fabric, dtex	-	950 dtx
-	Total Weight	-	680 gr/m ²
-	Width[s]****	-	150, 205 [cm]
21.1 (I)	Tensile Strength - Kgf / 50 mm width- Warp	230 min	275
	Tensile Strength - Kgf / 50 mm width- Weft	225 min	250
	Elongation at 225 - Kgf / 50 mm - % Warp	30 max	20
	Elongation at 225 - Kgf / 50 mm - % Weft	30 max	25
21.1 (II)	Tear Strength - Kgf - warp	105	120
	Tear Strength – Kgf - weft	105	110
21.1 (III)	Surface Receptiveness - Kgf / 50 mm	7.5 min.	20 / 20
	Coating Adhesion- Dry - 7.5 Kgf/50 mm- 5 min.	Max. 5 mm separation	Pass
	Wet - 5.0 Kgf/50 mm - 5 minutes (Wet- 24 hours in 3% Aqueous Sodium Chloride)	Max. 5 mm separation	Pass
21.1 (IV)	Effects of Ageing (i) in air at 70°C ± 2°C for 7 days (ii) suspended over water for 7 days at 70°C ± 2°C <ul style="list-style-type: none"> Folding test, after (i) & (ii) Tensile Str. - % of original, after (i) & (ii) 	No Cracks, separation 90 min	Complies Pass
21.1 (V)	Dimensional stability - %, after (i) & (ii)	2 max.	0.7 / 1.2
21.1 (VI)	Low Temperature - 50°C	No Cracks	Pass
21.1 (VII)	Flex Cracking – 200,000 cycles* (After soaking for 7 days in 2% solution of brine)	No Cracks or Delamination	Pass



Spec Para	Properties	Requirements	Results
21.1 (VIII)	Porosity at 4 psi	No leakage at 5 minutes	Pass
21.1 (IX)	Oil resistance- ASTM No. 1 (2 hours) ** 20 °C	No Smear, Separation, Tackiness	Pass
21.1 (X)	Weight variation - % of spec.	± 10 max.	± 8
21.1 (XI)	Weft Distortion - mm	100 max.	50
21.1 (XII)	Blocking - Lifting force - gmf	100 max.	Pass
21.1 (XIII)	Weld Strength - Kg per 25 mm width	18 min.	27
21.1 (XIV)	Hydrolysis Resist. - Coating Adhesion - Kg/50 mm	5.0 min.	16
	- Blocking - gmf	100 max.	Pass
	- Weld Strength - Kg / 25 mm	12.5 min	18
	- Folding Test (12 weeks over water in closed container at 93°C)	No Cracking, delamination	Pass
21.1 (XV)	Ozone Resistance**	No Cracks	Pass
	Abrasion Resistance (Taber H-22 Wheel 1 Kg load) ASTM D 3389	>10,000 cycles to expose the fabric	

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

Remarks: * Flex resistance preformed similar to DeMattia type of machine (200 Cycles per minutes).

** Oil & Ozone resistance - not relevant, but performed in 3rd party Laboratory.

*** Max. Service temperature (+70°C) in short cycles. Not more than 1hr cycles.

**** For special/additional widths, please contact EREZ's representative.



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Properties Test & Method	Typical Characteristics	
	English	Metric
Base Fabric	Nylon 855 Den 7 [Oz/yd ²]	Nylon 950 Dtx 240 [gr/m ²]
Weave density Fed. Std 191A:5050	30.5 / 30.5 [yarn/inch]	12 / 12 [yarn/cm]
Total Weight ASTM D 751	20 [Oz/yd ²]	680 [gr/m ²]
Width[s]**	59, 81 [inch]	150, 205 [cm]
Breaking Strength - Strip ISO 1421	280 / 280 [lbs/inch]	2500 / 2500 [N/5 cm]
Elongation ISO 1421	25 / 30 [%]	
Tear Strength - Grab ASTM D 751 method A	270 / 270 [lbs/inch]	2400 / 2400 [N/5 cm]
Tear Strength - Single Rip / Tongue ASTM D 751 method B, DIN 53356	13 / 15 [lbs]	60 / 70 [N]
Tear Strength - Trapezoid ISO 1421 [MSC.81 (70)]	264 / 220 [lbs]	1200 / 1000 [N]
Coating Adhesion ISO 2411	28 / 28 [lbs/inch]	250 / 250 [N/5 cm]
Flame Resistance ISO 3795, FMVSS 302	≤ 3.15 [inch/min]	≤ 80 [mm/min]
Air Porosity B.S. 6F 100 Clause 3.17	Pass (10 min at 7 psi)	

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