

Product Data Sheet TPU 1001 S

Update: January, 2018

Erez Thermoplastic Products | Kibbutz Erez M.P Ashkelon Coast 7915000 Israel Tel: +972 8 6801200 / 201 | sales_etp@erez-therm.com www.erez-therm.com

Product Name: TPU 1001 S

Polyurethane Coated membrane, Nylon fabric.

End Use: Inflatable life jacket bladders

Complies with: UL 1191 File No: MQ1807 Codes: 1F, 2F, 3F, 5H and ISO 12402-7

Property	Test Method	Exposure & Method	UL 1191 Requirements	
			English	Metric
Fabric Type	-	-	Nylon	Nylon
Fabric Count	ASTM D3775	-	66/56 per inch	26/22 per cm
Fabric Weight	ASTM D3776	-	3.2 Oz/yd²	109 gr/m²
Total Weight	ASTM D3776	-	8 Oz/ yd²	273 gr/m²
Breaking Strength (Grab)	ASTM D5034 Method G-E	1. Standard Condition	246 / 209 lbs	1094 / 930 N
		2. After accelerated aging		
		168 hours 158°F (70°C)	≥90%	≥90%
		FTMS 191A Method 5850		
		3. After soil burial and fungus		
		Resistance 12 weeks.	≥90%	≥90%
		FTMS 191A Method 5762		
		4. After 100 hours		
		Accelerated weathering.	≥60%	≥60%
		Carbon Arc Weatherometer		
		5. After 300 hours		
		Accelerated weathering.	≥40%	≥40%
		Carbon Arc Weatherometer		
Breaking Strength (Strip)		1. Standard Condition	194 / 167 lbs	863 / 743 N
	ASTM D5035			
		2.After abrasion resistance.	≥75%	≥75%
		FTMS 191A Method 5304		
Trapezoid Tear Strength	FTMS 191A Method 5136	1. Standard Condition	9.8/8.1 lbs	44 / 36 N
		2. After accelerated aging		
		168 hours 158°F (70°C)	≥90%	≥90%
		FTMS 191A Method 5850		



Product Data Sheet **TPU 1001 S**

Update: January, 2018

Erez Thermoplastic Products | Kibbutz Erez M.P Ashkelon Coast 7915000 Israel Tel: +972 8 6801200 / 201 | sales_etp@erez-therm.com www.erez-therm.com

Property	Test Method	Exposure & Method	UL 1191 Requirements	
			English	Metric
Seal Seam Strength	ASTM F88& ASTM D5035 Method 2C-E	1. Standard Condition	71/65 lbs/inch	63/58 kgf/5 cm
		 At 149°F (65°C) @ 95% RHT for 360 hr. 	≥75%	≥75%
Permeability of CO ₂	ASTM D1434	1. Standard Condition	1.25x10 ⁻¹³ mol /m².s.Pa	1.25x10 ⁻¹³ mol /m².s.Pa
		 After accelerated aging 168 hours 158°F (70°C) FTMS 191A Method 5850 	≤ 110%	≤ 110%
		 After soil burial and fungus Resistance 12 Weeks. FTMS 191A Method 5762 	≤ 110%	≤ 110%
		 4. 149°F (65°C) at 95% Relative humidity for 360 hr. ASTM D3690 	≤ 110%	≤ 110%