



## Product Name: TPU 1001S

**Polyurethane coated membrane, Nylon fabric.**

**End Use:** Inflatable life jacket bladders.

**Certified in accord to:** UL 1191 File No. MQ1807 – Codes 1F, 2F, 3F, 5H and ISO 12402-7

Properties Test & Method	Typical Characteristics	
	English	Metric
Fabric Type	Nylon 210 Den	Nylon 235 Dtx
Fabric Count ASTM D 3775	66 / 56 per inch	26 / 22 per cm
Width[s]**	59, 81 [inches]	150, 205 [cm]
Total Weight ASTM D 751 / ISO 3801	8 [Oz/yd <sup>2</sup> ]	273 [gr/m <sup>2</sup> ]
Tensile Strength ISO 13934 – 2	247 / 225 [lbs]	1100 / 1000 [N]
After acc. Ageing 168 hrs @ 70 °C (158 °F)	≥ 90%	
Breaking Strength ASTM D 5034	247 / 225 [lbs]	1100 / 1000 [N]
After acc. Ageing 168 hrs @ 70 °C (158 °F)	≥ 90%	
Tear strength - Trapez ISO 9073 – 4	11.2 / 10.1 [lbs]	50 / 45 [N]
After acc. Ageing 168 hrs @ 70 °C (158 °F)	≥ 90%	
Trapezoid Tear Strength FTMS 191A Method 5136	≥ 10 / 8 [lbs]	≥ 45 / 36 [N]
After acc. Aging 168 hrs @ 70 °C (158 °F) FTMS 191A Method 5850	≥ 90%	
Permeability of CO <sub>2</sub> ISO 7229	< 0.7 [dm <sup>3</sup> /(day*m <sup>2</sup> )]	
After acc. Ageing 168 hrs @ 70 °C (158 °F)	≤ 110%	
After 360 hrs @ 65 °C (149 °F) & 95% R.H.	≤ 110%	
Permeability of CO <sub>2</sub> ASTM D1434	1.25x10 <sup>-13</sup> [mol /m <sup>2</sup> .s.Pa]	
After acc. Ageing 168 hrs @ 70 °C (158 °F)	≤ 110%	
After 360 hrs @ 65 °C (149 °F) & 95% R.H.	≤ 110%	
Coating Adhesion (HF Welding) ISO 2411	78 / 78 [lbs/inch]	700 / 700 [N/50 mm]
After 42 days at 70 °C over water	73 / 73 [lbs/inch]	650 / 650 [N/50 mm]

e<sup>2</sup> Technical Textile, 1227 Central Avenue, Hillside, NJ 07205 USA - 1-908-559-0899



**Product Name: TPU 1001S**

**Polyurethane coated membrane, Nylon fabric.**

**End Use:** Inflatable life jacket bladders.

**Certified in accord to:** **UL 1191** File No. MQ1807 – Codes 1F, 2F, 3F, 5H and **ISO 12402-7**

Seal Seam Strength ASTM F88 & ASTM D5035 Method 2C-E After exp. 360 hrs @ 149°F (65°C) & 95% R.H.	≥ 65 / 65 [lbs/inch]	≥ 114 / 114 [N/cm]
	≥ 75%	
Resistance to flex cracking (9000 cycles) ISO 7854 Method A After 42 days @70 °C (158 °F) over water	No damage	
	No damage	

**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.