

TorodonTM **vs. Other srPP Materials**



Technical Datasheet

Developed and manufactured in the UK, TorodonTM is a Self-Reinforcing Polypropylene (srPP) fabric that, when layered and thermoformed, exhibits a range of attractive properties.

Components manufactured from this material are extremely strong, light and impact resistant. These capabilities are illustrated by the early adoption of TorodonTM into the demanding arenas of ballistics and blast attenuation.

The material performance characteristics of TorodonTM are now being exploited in a range of other applications.

To date, TorodonTM has been tried and tested in the aerospace, ballistics, sports, automotive and luggage sectors where it delivers excellent performance and competitive advantages.

Product Features

- ▶ Self reinforcing - TorodonTM requires no glass, carbon fibre or resin matrix
- ▶ Safer to handle and easier to machine than 'glass' or 'fibre' composites
- ▶ Broad thermoforming window with the possibility of reduced cycle times
- ▶ Low density with good stiffness properties
- ▶ Available as tape, fabric, sheet or component
- ▶ 100% recyclable
- ▶ Good resistance to chemical degradation
- ▶ Non-toxic and inert
- ▶ Impact resistant at temperatures as low as -40°C
- ▶ **Advantageous price / performance ratio**

Technical Performance vs. Other srPP Materials

MATERIAL PROPERTY	STANDARD	TORODON TM		Thermoplastics		
		Twill Weave	Plain Weave	Pure [®]	Tegris [®]	Curv [®]
Density (g/cm ³)	ISO 1183	0.85	0.9	0.78	0.78	0.92
Tensile Modulus (GPa)	ISO 527	4.1	4.35	5.5	5-6	4.2
Tensile Strength (MPa)	ISO 527	170	180	200	200	120
Flexural Modulus (GPa)	ISO 178	3.75	4.52	4.5-5.5	5-6	3.5
Notched Izod Impact (EP Type A) (kJ/m ²)	ISO 180	No break	No break	126	-	400
Elongation at break (%)	ISO 527	11	11	9	6	20
HDT at 0.45MPa (°C)		130	130	-	-	-
HDT at 1.80MPa (°C)		100	105	-	-	-

All products are manufactured under BS EN ISO 9001.

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