

## Technical Datasheet vs. Other srPP Materials

Developed and manufactured in the UK, Torodon<sup>™</sup> 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 Torodon<sup>™</sup> into the demanding arenas of ballistics and blast attenuation.

The material performance characteristics of Torodon<sup>™</sup> are now being exploited in a range of other applications.

To date, Torodon<sup>™</sup> 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 - Torodon<sup>™</sup> 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™		Pure®	Thermoplastics	
		Twill Weave	Plain Weave		Tegris®	Curv®
Density (g/cm <sup>3</sup> )	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	3.7	4.5	4.5 - 5.5	5 - 6	3.5
Notched Izod Impact (EP Type A) (kJ/m <sup>2</sup> )	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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