

Material Properties

Technical Datasheet

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

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

To date, Torodon™ 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™ 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 | Material Properties

MATERIAL PROPERTY	STANDARD	Twill Weave	Plain Weave
Density (g/cm ³)	ISO 1183	0.85	0.9
Tensile Modulus (GPa)	ISO 527	4.1	4.35
Tensile Strength (MPa)	ISO 527	170	180
Flexural Modulus (GPa)	ISO 178	3.75	4.52
Notched Izod Impact (EP Type A) (kJ/m ²)	ISO 180	No break	No break
Elongation at break (%)	ISO 527	11	11
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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