



Advanced composite materials

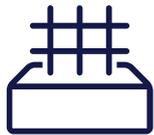
Developed and manufactured in the UK, Torodon® is a Self-Reinforcing Polypropylene (srPP) fabric that when layered and thermoformed combines outstanding durability, excellent impact resistance and lightweight properties.

These capabilities are illustrated by the early adoption of Torodon® into the demanding arenas of ballistics and blast attenuation, and are now being exploited in a range of sectors including sports and leisure, automotive, packaging, and luggage.

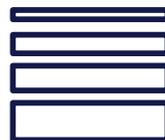
Torodon® provides excellent performance results to a range of applications within these sectors and offers manufacturers a competitive advantage at a *unique price performance ratio*.



Non-toxic and Inert



Self-reinforcing – requires no glass/carbon fibres or resin matrix



Low Density with Good Stiffness



Impact resistant at low temperatures > -40°C



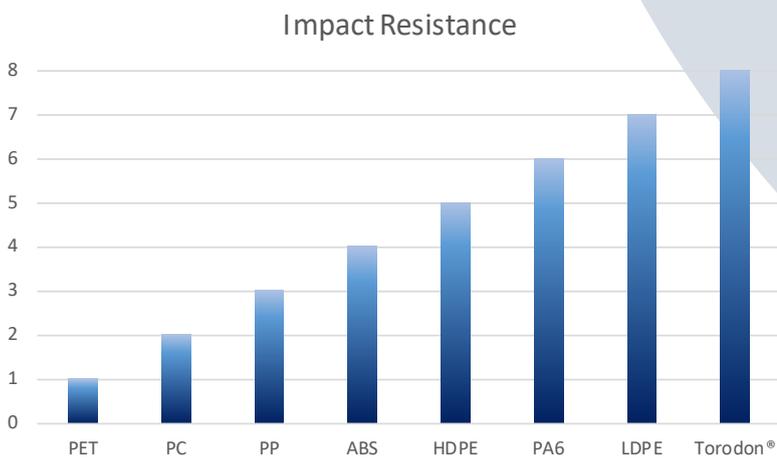
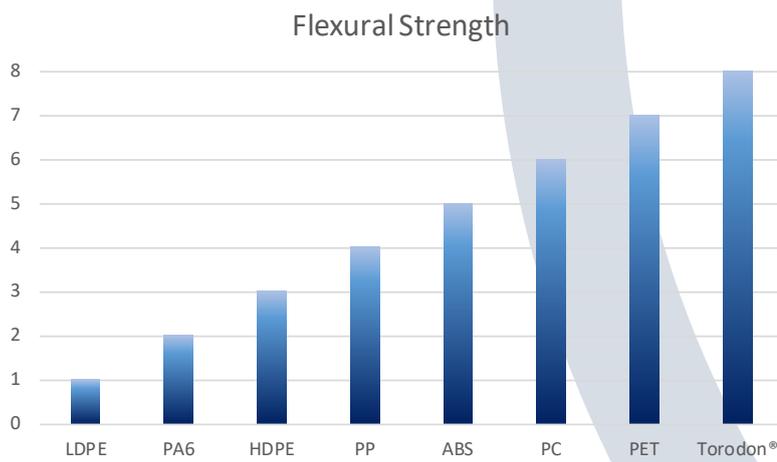
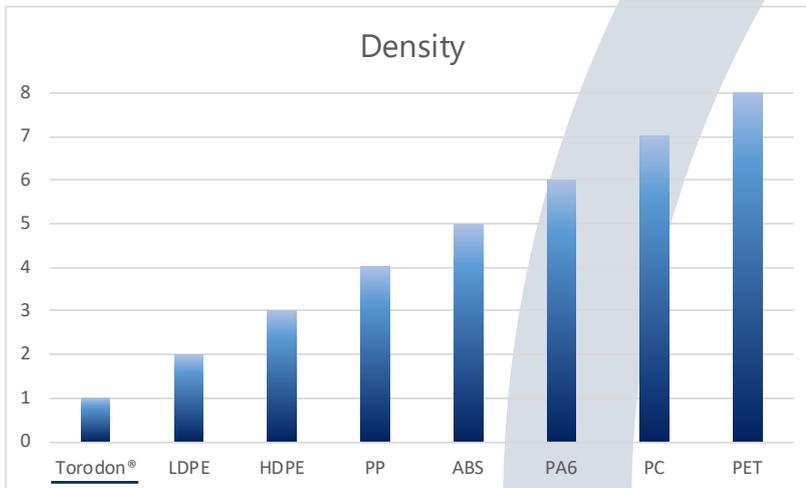
Broad thermoforming window with the possibility of reduced cycle times



Safer to handle and easier to machine than 'glass' or 'fibre' composites

Technical

Testing and technical comparison to other high performance manufacturing materials shows excellent performance .v. weight .v. cost ratios in favour of Torodon®.



Processing

The key properties of Torodon® are created when the fabric is 'consolidated' under conditions of heat and pressure (Thermoforming).

Thermoforming generally involves preheating the material to between 120 - 140°C and compressing at a minimum of 50psi in matched (M/F) tools.

Working closely with our customers we are constantly challenging these parameters and recommend that you contact us to discuss your specific performance requirements and processing capabilities.

The Next Generation

Torodon® fabrics have been successfully paired with various aramid, glass-based and polyolefin materials to produce an exciting range of srPP based textiles that offer further improved performance.

We have also developed composite materials which build on the strong, lightweight and impact resistant capabilities of Torodon® by combining these with expanded polymer (foams) in sheet or shaped forms.