

CELSTRAN[®] CFR-TP PPS GF60-01 CELSTRAN® CFR-TP

Celstran® CFR-TP PPS GF60-01 is a 60% E-glass by weight PPS (polyphenylene sulfide) continuous fiber (uni-directional) reinforced thermoplastic composite tape. This material exhibits a high strength-to-weight ratio, excellent chemical and flame, smoke, and toxicity or (FST) performance, and long-term heat stability. It is well suited for aerospace, oil/gas and industrial applications where demanding chemical and FST performance is necessary. The E-glass fiber offers a lower cost solution as compared to other PPS materials reinforced with S-glass. This material is available in natural and black colors. Alternate tape widths and thicknesses may be available.

Product information

Fiber volume content Tape thickness Tape width Tape areal weight Fiber areal weight	44 0.29 305 510 306	% mm mm g/m ² g/m ²	ISO 11667 ISO 16012 ISO 16012
Typical mechanical properties			
Tensile modulus, Tape 0° Tensile strength, Tape 0° Tensile strain at failure, Tape 0° Flexural modulus, Tape 0° Flexural strength, Tape 0° Flexural strain at failure, Tape 0°	34200 776 2.44 37500 867 3.22	MPa MPa MPa MPa %	ASTM D 3039 M ASTM D 3039 M ASTM D 3039 M ASTM D 790 ASTM D 790 ASTM D 790
Thermal properties			
Melting temperature, 10°C/min Glass transition temperature, 10°C/min	282 90	°C °C	ISO 11357-1/-3 ISO 11357-1/-3
Physical/Other properties			
Density	1880	kg/m³	ISO 1183

Characteristics

Processing

Injection Moulding, Thermoforming, Selective reinforcement

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Stress-strain







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Secant modulus-strain



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