

Eurostar Starglas OC004 PPS, 20% Carbon Filled, Injection Molded

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% Carbon Fiber Filler

Material Notes:

Starglas OC004 is a 20% Carbon Fiber Reinforced PPS Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starglas-OC004-PPS-20-Carbon-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	0.040 % @Temperature 23.0 °C, Time 86400 sec	0.040 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0015 cm/cm @Thickness 4.00 mm	0.0015 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	144 MPa	20900 psi	5 mm/min; ISO 527
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Flexural, 2 mm/min; ISO 178
Tensile Modulus	16.6 GPa	2410 ksi	1 mm/min; ISO 527
Flexural Strength	193 MPa	28000 psi	2 mm/min; ISO 178
Flexural Yield Strength	194 MPa	28100 psi	2 mm/min; ISO 178
Flexural Modulus	15.1 GPa	2190 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 µm/m-°C @Temperature 23.0 - 60.0 °C	7.22 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	55.0 µm/m-°C @Temperature 23.0 - 60.0 °C	30.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa	275 °C	527 °F	

(56 psi) Thermal Properties	Metric	English	Flatw 80x10x4, sp=64 mm; ISO 75/Bf Comments
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Zone 1	205 - 315 °C	401 - 599 °F	
Zone 2	320 - 330 °C	608 - 626 °F	
Zone 3	330 - 345 °C	626 - 653 °F	
Melt Temperature	315 - 320 °C	599 - 608 °F	
Mold Temperature	140 - 165 °C	284 - 329 °F	
Drying Temperature	120 - 150 °C @Time 14400 sec	248 - 302 °F @Time 4.00 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China