

Eurostar Starpylen MF004S PP, 20% Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

Starpylen MF004S is a 20% Glass Fiber Reinforced Polypropylene Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MF004S-PP-20-Glass-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 4.00 mm	0.0030 - 0.0050 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	78.0 MPa	11300 psi	50 mm/min; ISO 527
Elongation at Yield	3.1 %	3.1 %	50 mm/min; ISO 527
Tensile Modulus	4.70 GPa	682 ksi	1 mm/min; ISO 527
Flexural Yield Strength	102 MPa	14800 psi	2 mm/min; ISO 178
Flexural Modulus	4.10 GPa	595 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	44.0 μm/m-°C @Temperature 23.0 - 60.0 °C	24.4 μin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	133 μm/m-°C @Temperature 23.0 - 60.0 °C	73.9 μin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	195 - 205 °C	383 - 401 °F	
Zone 2	215 - 225 °C	419 - 437 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	225 - 250 °C	437 - 482 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	70.0 °C @Time 10800 sec	158 °F @Time 3.00 hour	

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