

Eurostar Starpylen MFB44S PP, Glass Bead/Glass Fiber Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Glass Fiber + Bead Filler

Material Notes:

Starpylen MFB44S is a Glass Beads, Glass Fiber Reinforced, Polypropylene Injection Molding Resin heat stabilized (also known as Starpylen WS 2020VK S37.7) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MFB44S-PP-Glass-BeadGlass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 4.00 mm	0.0020 - 0.0040 in/in @Thickness 0.157 in	E2P method
Melt Flow	3.0 - 10 g/10 min @Load 5.00 kg, Temperature 230 °C	3.0 - 10 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	5.60 GPa	812 ksi	1 mm/min; ISO 527
Flexural Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
Flexural Modulus	4.20 GPa	609 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °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	
Zone 3	225 - 250 °C	437 - 482 °F	
Melt Temperature	225 - 250 °C	437 - 482 °F	

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

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