

Eurostar Starpylen MZ006S PP, Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Starpylen MZ006S is a Glass fiber Reinforced, Polypropylene Injection Molding Resin heat stabilized (also known as Starpylen WT 30GF S3) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MZ006S-PP-Glass-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 4.00 mm	0.0030 - 0.0060 in/in @Thickness 0.157 in	E2P method
Melt Flow	5.0 - 10 g/10 min @Load 5.00 kg, Temperature 230 °C	5.0 - 10 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	5 mm/min; ISO 527
Elongation at Yield	5.0 - 7.0 %	5.0 - 7.0 %	5 mm/min; ISO 527
Tensile Modulus	4.20 GPa	609 ksi	1 mm/min; ISO 527
Flexural Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Yield Strength	45.0 MPa	6530 psi	2 mm/min; ISO 178
Flexural Modulus	3.00 GPa	435 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °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 Processing Properties	225 - 250 °C Metric	437 - 482 °F English	Comments
Melt Temperature	225 - 250 °C	437 - 482 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	

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