

Eurostar Starpylen MFM43S PP, Glass/Mineral Filled, Injection Molded

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass/Mineral Reinforced

Material Notes:

Starpylen MFM43S is a Mineral Filled, Glass Fiber Reinforced, Polypropylene Injection Molding Resin, also recognized as Starpylen WV 30VMC S37/7 Black 301 Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MFM43S-PP-GlassMineral-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	0.010 % @Temperature 23.0 °C, Time 86400 sec	0.010 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 4.00 mm	0.0020 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	3.7 %	3.7 %	Flexural, 5 mm/min; ISO 178
Tensile Modulus	5.40 GPa	783 ksi	1 mm/min; ISO 527
Flexural Strength	45.0 MPa	6530 psi	2 mm/min; ISO 178
Flexural Yield Strength	86.0 MPa	12500 psi	2 mm/min; ISO 178
Flexural Modulus	5.40 GPa	783 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)	20.0 kJ/m ²	9.52 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	127 µm/m-°C @Temperature 23.0 - 60.0 °C	70.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (26.4 psi)	124 °C	255 °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	
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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