

Eurostar Starpylen MX05039 PP, Mineral Filled, Injection Molding

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Starpylen MX05039 is a Mineral Filled Polypropylene Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MX05039-PP-Mineral-Filled-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Water Absorption	0.030 % @Temperature 23.0 °C, Time 86400 sec	0.030 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 4.00 mm	0.011 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	50 mm/min; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527
Elongation at Yield	3.9 %	3.9 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	36.0 MPa	5220 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 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)	50.0 kJ/m ²	23.8 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 µm/m-°C @Temperature 23.0 - 60.0 °C	58.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	139 µm/m-°C @Temperature 23.0 - 60.0 °C	77.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	63.0 °C Metric	145 °F English	Cl: 20x10x4, sp=64 mm; ISO 75/Af Comments
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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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