

Eurostar Staramide RFM3353EM PA66/6, Glass/Mineral Fiber Reinforced, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Starflam RFM3353EM is a Mineral Filled, Glass Fiber Reinforced Polyamide 66/ Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RFM3353EM-PA666-GlassMineral-Fiber-Reinforced-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	5.1 % @Temperature 23.0 °C, Time 86400 sec	5.1 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Moisture Absorption	1.50 % @Temperature 23.0 °C	1.50 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Thickness 4.00 mm	0.0020 - 0.0050 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	115 MPa	16700 psi	ISO 527
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	5 mm/min; ISO 527
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	80x10x4; ISO 179/1eA
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	31.0 µm/m-°C @Temperature 23.0 - 60.0 °C	17.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C @Thickness 3.20 mm	482 °F @Thickness 0.126 in	unannealed; ASTM D648
Glow Wire Test	750 °C @Thickness 1.50 mm	1380 °F @Thickness 0.0591 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D527
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D527
Comparative Tracking Index	450 V	450 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	265 - 275 °C	509 - 527 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 280 °C	518 - 536 °F	
Melt Temperature	270 - 280 °C	518 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	

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