

Eurostar Staramide RFB24 PA66, 20/10% Glass Fiber/Glass Bead Filled Injection Molded

Category : Ceramic , Machinable Ceramic , Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

RFB24 is a Glass Bead and Glass Fiber Reinforced, Polyamide 66 Injection Molding Resin (also known as Staramide 66 2010VK Z3) Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RFB24-PA66-2010-Glass-FiberGlass-Bead-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	1.2 % @Temperature 23.0 °C, Time 86400 sec	1.2 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	147 MPa	21300 psi	5 mm/min; ISO 527
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	7.80 GPa	1130 ksi	1 mm/min; ISO 527
Flexural Strength	213 MPa	30900 psi	2 mm/min; ISO 178
Flexural Yield Strength	215 MPa	31200 psi	2 mm/min; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C @Temperature 23.0 - 60.0 °C	19.4 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	101 µm/m-°C @Temperature 23.0 - 60.0 °C	56.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	257 °C	495 °F	Flatw 120x10x4, sp=64 mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	Flatix 120x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 280 °C	509 - 536 °F	Zone 1
Middle Barrel Temperature	270 - 285 °C	518 - 545 °F	Zone 2
Front Barrel Temperature	270 - 285 °C	518 - 545 °F	Zone 3
Melt Temperature	270 - 285 °C	518 - 545 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.20 %	0.20 %	

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