

Eurostar Staramide RFC16 PA66/6, Glass/Carbon Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

RFC16 is a Glass Fiber and Carbon Fiber Reinforced Polyamide 66/Polyamide 6 Injection Molding Resin (also known as STAR C PA66 C 303VY Z3)Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RFC16-PA666-GlassCarbon-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	141 MPa	20500 psi	5 mm/min; ISO 527
Elongation at Yield	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	1 mm/min; ISO 527
Flexural Yield Strength	215 MPa	31200 psi	2 mm/min; ISO 178
Flexural Modulus	7.90 GPa	1150 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 μm/m-°C	10.6 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	91.0 μm/m-°C	50.6 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 1.8 MPa (264 psi)	211 °C	412 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	265 - 275 °C	509 - 527 °F	
Zone 2	270 - 290 °C	518 - 554 °F	
Zone 3	270 - 290 °C	518 - 554 °F	

Melt Temperature Processing Properties	270 - 290 °C Metric	518 - 554 °F English	Comments
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	0.20 %	0.20 %	

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