

Eurostar Staramide RF00ASXP PA66, 50% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Staramide RF00ASXP is a 50% Glass Fiber Reinforced Polyamide 66 Injection Molding Resin (also known as Staramide 66 G 50V S3) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RF00ASXP-PA66-50-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	0.70 % @Temperature 23.0 °C, Time 86400 sec	0.70 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 4.00 mm	0.0010 - 0.0030 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	210 MPa	30500 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	15.4 GPa	2230 ksi	1 mm/min; ISO 527
Flexural Yield Strength	305 MPa	44200 psi	2 mm/min; ISO 178
Flexural Modulus	14.1 GPa	2050 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 μm/m-°C @Temperature 23.0 - 60.0 °C	14.4 μin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	84.0 μm/m-°C @Temperature 23.0 - 60.0 °C	46.7 μin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	259 °C	498 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa	246 °C	475 °F	

(264 psi) Thermal Properties	Metric	English	Flatw 80x10x4, sp=64 mm; ISO 75/AF Comments
UL RTI, Electrical	130 °C	266 °F	
UL RTI, Mechanical with Impact	125 °C	257 °F	
UL RTI, Mechanical without Impact	125 °C	257 °F	
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	4.0 sec	4.0 sec	

Processing Properties	Metric	English	Comments
Zone 1	260 - 280 °C	500 - 536 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 290 °C	518 - 554 °F	
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	75.0 - 85.0 °C @Time 14400 - 21600 sec	167 - 185 °F @Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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