

## Eurostar Staramide RFB53U PA66, 50% Glass Bead/Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

### Material Notes:

RFB53U is a Glass Bead/ Glass Fiber Reinforced Polyamide 66 Injection Molding Resin (also known as Staramide 66 1525 VK Z4)Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Staramide-RFB53U-PA66-50-Glass-BeadFiber-Filled-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-RFB53U-PA66-50-Glass-BeadFiber-Filled-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.1 % @Temperature 23.0 °C, Time 86400 sec	1.1 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 4.00 mm	0.0070 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	131 MPa	19000 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	7.20 GPa	1040 ksi	1 mm/min; ISO 527
Flexural Yield Strength	201 MPa	29200 psi	2 mm/min; ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C @Temperature 23.0 - 60.0 °C	23.3 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	86.0 µm/m-°C @Temperature 23.0 - 60.0 °C	47.8 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	253 °C	487 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Stress at Break (20°C)	22.5 MPa	414.7 psi	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	280 - 290 °C	536 - 554 °F	
Melt Temperature	275 - 285 °C	527 - 545 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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