

## Eurostar Star X RF003IU2-BK3047 PA66, Glass Fiber Filled, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Reinforced, Impact Grade

### Material Notes:

Star X RF003IU2-BK3047 is an Impact Modified, Glass Fiber Reinforced, UV stabilized Polyamide 66/6 Injection Molding (also known as Star X D 1010 14V/3/047) Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Star-X-RF003IU2-BK3047-PA66-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Star-X-RF003IU2-BK3047-PA66-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	E2P method
Ash	14 %	14 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Tensile Modulus	4.40 GPa	638 ksi	1 mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	3.30 GPa	479 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80x10x4; ISO 179/1eA
	13.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 180/1U
	50.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80x10x4; ISO 180/1U
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup> @Temperature -30.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.15 J/cm <sup>2</sup>	5.47 ft-lb/in <sup>2</sup>	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae

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	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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