

Eurostar Staramide PF003IX1 PA6, Glass Fiber Filled, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

Material Notes:

Staramide PF003IX1 is an Impact Modified, Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin (also known as PF1003HI005) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PF003IX1-PA6-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	4.90 GPa	711 ksi	1 mm/min; ISO 527
Flexural Strength	140 MPa	20300 psi	2 mm/min; ISO 178
Flexural Modulus	4.20 GPa	609 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 kJ/m ²	7.14 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80x10x4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	65.0 kJ/m ²	30.9 ft-lb/in ²	80x10x4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	176 °C	349 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	

Processing Properties	Metric	English	Comments
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	240 - 260 °C	464 - 500 °F	
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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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