

Eurostar Staramide PFB42ES PA6, Glass Fiber/Bead Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled , Nylon 6, Glass Bead Filled

Material Notes:

Starflam PFB42ES is a Glass Bead and Glass Fiber Reinforced Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PFB42ES-PA6-Glass-FiberBead-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	1.9 %	1.9 %	ISO 62-1
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0044 cm/cm	0.0044 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	4.4 %	4.4 %	
Tensile Modulus	5.70 GPa	827 ksi	1 mm/min; ISO 527
Flexural Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Yield Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	4.70 GPa	682 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	93.0 µm/m-°C	51.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 1.8 MPa	156 °C	313 °F	

(264 psi) Thermal Properties	Metric	English	Flatw 80x10x4, sp=64 mm; ISO 75/AF Comments
Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	240 - 270 °C	464 - 518 °F	
Melt Temperature	240 - 270 °C	464 - 518 °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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