

Eurostar Star L PA6 30V D51 PA6, Glass Filled, Injection Molding

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

Material Notes:

Star L PA6 30V D51 is a PTFE Lubricated, 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-Star-L-PA6-30V-D51-PA6-Glass-Filled-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	156 MPa	22600 psi	ISO 527
Elongation at Break	3.3 %	3.3 %	ISO 527
Flexural Strength	215 MPa	31200 psi	ISO 178
Flexural Modulus	7.90 GPa	1150 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	197 °C	387 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	240 - 250 °C	464 - 482 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 270 °C	482 - 518 °F	
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
	@Time 14400 sec	@Time 4.00 hour	

Processing Properties	Metric	English	Comments
Moisture Content	0.20%	0.20%	

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