

Eurostar Star L PA D51 PA6, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Star L PA6 D51 is a 15% PTFE Lubricated Unreinforced, Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Star-L-PA-D51-PA6-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.018 - 0.022 cm/cm @Thickness 4.00 mm	0.018 - 0.022 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	ISO 527
Elongation at Break	12 %	12 %	ISO 527
Flexural Strength	84.0 MPa	12200 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 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)	110 °C	230 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	235 - 245 °C	455 - 473 °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	167 - 185 °F	

Processing Properties	^{sec} Metric	@Time 4.00 - 6.00 hour English	Comments
Moisture Content	0.20 %	0.20 %	

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