

Eurostar Star L POM D51 POM, Injection Molded

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Star L POM D51 is a PTFE Lubricated, POM Copolymer Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.022 - 0.024 cm/cm	0.022 - 0.024 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	13 %	13 %	ISO 527
Flexural Strength	64.0 MPa	9280 psi	ISO 178
Flexural Modulus	2.05 GPa	297 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be

Processing Properties	Metric	English	Comments
Zone 1	180 - 190 °C	356 - 374 °F	
Zone 2	180 - 190 °C	356 - 374 °F	
Zone 3	180 - 200 °C	356 - 392 °F	
Melt Temperature	180 - 200 °C	356 - 392 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
	@Time 14400 sec	@Time 4.00 hour	

Processing Properties	Metric	English	Comments
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