

Eurostar Star L PA66 30Y D61 PA66, Carbon Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 10% Carbon Fiber Filled

Material Notes:

Star L PA66 30Y D51 is a PTFE/Silicone Oil Lubricated, Carbon Fiber Reinforced, Polyamide 66 Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Star-L-PA66-30Y-D61-PA66-Carbon-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 4.00 mm	0.0020 - 0.0040 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ISO 527
Flexural Strength	245 MPa	35500 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Izod Impact, Notched (ISO)	8.10 kJ/m ²	3.85 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	265 °C	509 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	265 - 275 °C	509 - 527 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 280 °C	518 - 536 °F	
Melt Temperature	270 - 280 °C	518 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
	80.0 °C	176 °F	

Drying Temperature Processing Properties	Metric @ Time 14400 sec	English @ Time 4.00 hour	Comments
Moisture Content	0.15 - 0.25 %	0.15 - 0.25 %	

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