

Eurostar Starpylen MCR13S PP, 15% Carbon Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Carbon Fiber Filled

Material Notes:

Starpylen MCR13S is a 15% Carbon Fiber Reinforced Polypropylene Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starpylen-MCR13S-PP-15-Carbon-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	E2P method
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	5 mm/min; ISO 527
Elongation at Break	1.0 %	1.0 %	5 mm/min; ISO 527
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Modulus	6.30 GPa	914 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	195 - 205 °C	383 - 401 °F	
Zone 2	215 - 225 °C	419 - 437 °F	
Zone 3	225 - 250 °C	437 - 482 °F	
Melt Temperature	225 - 250 °C	437 - 482 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	70.0 °C	158 °F	
	@Time 10800 sec	@Time 3.00 hour	

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