

Zhejiang Double Fish YS-G050 50% Long Fiber Glass Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Features high strength, good surface quality, and easy processing. Typical applications include automobile (bumper back beam, arm rest core, instrument panel, mudflap), machinery, electronics, communications (bobbin, relay bed, optical cable closure), military, sports equipment (skis, helmets, foot wear), and medical equipment. Product is customizable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zhejiang-Double-Fish-YS-G050-50-Long-Fiber-Glass-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Filler Content	50 %	50 %	Glass Fiber
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Flexural Strength	185 MPa	26800 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Izod Impact Resistance	3.20 J/cm ²	15.2 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	216 - 232 °C	421 - 450 °F	
Middle Barrel Temperature	210 - 227 °C	410 - 441 °F	
Front Barrel Temperature	204 - 221 °C	399 - 430 °F	
Melt Temperature	210 - 249 °C	410 - 480 °F	
Mold Temperature	38.0 - 77.0 °C	100 - 171 °F	
Injection Velocity	13.0 - 25.0 mm/sec	0.512 - 0.984 in/sec	
Injection Pressure	69.0 - 103 MPa	10000 - 14900 psi	

Processing Properties	Metric	English	Comments
Back Pressure	0.170 - 0.340 MPa	24.7 - 49.3 psi	
Screw Speed	30 - 70 rpm	30 - 70 rpm	

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