

PlastiComp Complet® LGF50 - PA6 Nylon 6, 50% Long Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Complēt® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Nylon 6 with 50% long glass fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastiComp-Complet-LGF50-PA6-Nylon-6-50-Long-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D-792
Filler Content	50 %	50 %	Long Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	228 MPa	33100 psi	ASTM D-638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D-638
Tensile Modulus	16.207 GPa	2350.6 ksi	ASTM D-638
Flexural Strength	352 MPa	51100 psi	ASTM D-790
Flexural Modulus	15.172 GPa	2200.5 ksi	ASTM D-790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	14.95 J/cm	28.01 ft-lb/in	ASTM D-4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ASTM D-648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 277 °C	500 - 530 °F	
Middle Barrel Temperature	266 - 282 °C	510 - 540 °F	
Front Barrel Temperature	271 - 288 °C	520 - 550 °F	
Nozzle Temperature	271 - 288 °C	520 - 550 °F	
Melt Temperature	271 - 288 °C	520 - 550 °F	
Mold Temperature	93.3 °C	200 °F	
Injection Velocity			

Processing Properties	50.8 - 76.2 mm/sec Metric	2.00 - 3.00 in/sec English	Comments
Drying Temperature	85.0 °C	185 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.18 %	<= 0.18 %	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	
Cushion	0.635 cm	0.250 in	
Screw Speed	30 - 50 rpm	30 - 50 rpm	

Descriptive Properties	Value	Comments
Injection Pressure	Medium to maximum	

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