

PlastiComp Complet® LCF40 - PA66 Nylon 66, 40% Long Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Carbon Fiber Filled

Material Notes:

Complēt® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Nylon 66 with 40% carbon fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastiComp-Complet-LCF40-PA66-Nylon-66-40-Long-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D-792
Filler Content	40 %	40 %	Carbon Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	276 MPa	40000 psi	ASTM D-638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D-638
Tensile Modulus	29.655 GPa	4301.1 ksi	ASTM D-638
Flexural Strength	414 MPa	60000 psi	ASTM D-790
Flexural Modulus	21.448 GPa	3110.8 ksi	ASTM D-790
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	11.21 J/cm	21.00 ft-lb/in	ASTM D-4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	246 °C	475 °F	ASTM D-648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	282 - 299 °C	540 - 570 °F	
Middle Barrel Temperature	288 - 304 °C	550 - 580 °F	
Front Barrel Temperature	293 - 310 °C	560 - 590 °F	
Nozzle Temperature	288 - 304 °C	550 - 580 °F	
Melt Temperature	293 - 310 °C	560 - 590 °F	
Mold Temperature	93.3 °C	200 °F	

Processing Properties	Metric 76.2 mm/sec	English .00 in/sec	Comments
Drying Temperature	85.0 °C @Time 14400 sec	185 °F @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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