

PlastiComp Complet® LCF40 - PP Homopolymer Polypropylene, 40% Long Carbon Fiber Reinforced

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

Material Notes:

Complet® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Polypropylene 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-PP-Homopolymer-Polypropylene-40-Long-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D-792
Filler Content	40 %	40 %	Carbon Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	97.0 MPa	14100 psi	ASTM D-638
Elongation at Break	1.0 %	1.0 %	ASTM D-638
Tensile Modulus	27.586 GPa	4001.0 ksi	ASTM D-638
Flexural Strength	159 MPa	23100 psi	ASTM D-790
Flexural Modulus	18.621 GPa	2700.8 ksi	ASTM D-790
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	6.408 J/cm	12.00 ft-lb/in	ASTM D-4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D-648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 210 °C	390 - 410 °F	
Middle Barrel Temperature	204 - 216 °C	400 - 420 °F	
Front Barrel Temperature	210 - 221 °C	410 - 430 °F	
Nozzle Temperature	204 - 216 °C	400 - 420 °F	
Melt Temperature	210 - 221 °C	410 - 430 °F	

Mold Temperature Processing Properties	79.4 °C Metric	175 °F English	Comments
Injection Velocity	50.8 - 76.2 mm/sec	2.00 - 3.00 in/sec	
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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