

PlastiComp Complet® LGF20 - PP Homopolymer Polypropylene, 20% Long Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Complet® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Polypropylene with 20% long glass fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastiComp-Complet-LGF20-PP-Homopolymer-Polypropylene-20-Long-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D-792
Filler Content	20 %	20 %	Long Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	100 MPa	14500 psi	ASTM D-638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D-638
Tensile Modulus	4.345 GPa	630.2 ksi	ASTM D-638
Flexural Strength	145 MPa	21000 psi	ASTM D-790
Flexural Modulus	4.345 GPa	630.2 ksi	ASTM D-790
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	6.942 J/cm	13.01 ft-lb/in	ASTM D-4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °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	79.4 °C	175 °F	

Processing Properties	Metric 76.2 mm/sec	English .00 in/sec	Comments
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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