

PlastiComp Complet® LCF30 - TPU Rigid Thermoplastic Polyurethane, 30% Long Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Carbon Fiber Reinforced

Material Notes:

Complet® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Polyurethane with 30% carbon fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastiComp-Complet-LCF30-TPU-Rigid-Thermoplastic-Polyurethane-30-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	30 %	30 %	Carbon Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	245 MPa	35500 psi	ASTM D-638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D-638
Flexural Strength	338 MPa	49000 psi	ASTM D-790
Izod Impact, Notched	1.92 J/cm	3.60 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	9.612 J/cm	18.01 ft-lb/in	ASTM D-4812

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	204 - 227 °C	400 - 440 °F	
Middle Barrel Temperature	210 - 232 °C	410 - 450 °F	
Front Barrel Temperature	216 - 238 °C	420 - 460 °F	
Nozzle Temperature	221 - 243 °C	430 - 470 °F	
Melt Temperature	216 - 238 °C	420 - 460 °F	
Mold Temperature	87.8 °C	190 °F	
Injection Velocity	50.8 - 76.2 mm/sec	2.00 - 3.00 in/sec	
Drying Temperature	88.0 °C @Time 14400 sec	190 °F @Time 4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Back Pressure Processing Properties	0.172 - 0.345 MPa Metric	25.0 - 50.0 psi English	Comments
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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