

PlastiComp Complet® LCF40 - PA6 Nylon 6, 40% Long Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled

Material Notes:

Complet® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Nylon 6 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-PA6-Nylon-6-40-Long-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D-792
Filler Content	40 %	40 %	Carbon Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	290 MPa	42100 psi	ASTM D-638
Elongation at Break	1.0 %	1.0 %	ASTM D-638
Tensile Modulus	29.655 GPa	4301.1 ksi	ASTM D-638
Flexural Strength	428 MPa	62100 psi	ASTM D-790
Flexural Modulus	23.448 GPa	3400.9 ksi	ASTM D-790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D-256
Izod Impact, Unnotched	10.15 J/cm	19.02 ft-lb/in	ASTM D-4812

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	50.8 - 76.2 mm/sec	2.00 - 3.00 in/sec	
Drying Temperature	85.0 °C	185 °F	
	@Time 14400 sec	@Time 4.00 hour	

Moisture Content Processing Properties	≤ 0.18 % Metric	≤ 0.18 % English	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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China