

Firestone CG430-001 Nylon 6, 30% Fiberglass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Natural color. Heat stabilized. Fiber size is 4 mm length and 14 Åµm diameter. Information provided by Firestone

Order this product through the following link:

http://www.lookpolymers.com/polymer_Firestone-CG430-001-Nylon-6-30-Fiberglass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	160 MPa	23200 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Yield Strength	205 MPa	29700 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 Åµm/m-Å°C @Temperature 20.0 Å°C	12.0 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Melting Point	220 Å°C	428 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	216 Å°C	421 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 282 Å°C	520 - 540 Å°F	
Middle Barrel Temperature	277 - 288 Å°C	530 - 550 Å°F	
Front Barrel Temperature	266 - 277 Å°C	510 - 530 Å°F	
Nozzle Temperature	260 - 271 Å°C	500 - 520 Å°F	
Melt Temperature	271 - 282 Å°C	520 - 540 Å°F	

Processing Properties	Metric	English	Comments
Drying Temperature	73.9 Å°C	165 Å°F	
Dry Time	4 hour	4 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

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