

Owens Corning Glass Fiber Reinforced Nylon 6, 30 wt.% glass

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

Material Notes:

Nylons, as a group, are inert to most organic solvents. They resist alkalis and salt solutions and they are attacked by strong mineral acids and oxidizing agents. Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Nylon-6-30-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	170 MPa	24700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Modulus of Elasticity	7.24 GPa	1050 ksi	ASTM D638
Flexural Yield Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	7.65 GPa	1110 ksi	ASTM D790
Compressive Strength	170 MPa	24700 psi	ASTM D695
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	2.70 $\mu\text{m/m-}^{\circ}\text{C}$	1.50 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.836 - 1.64 W/m-K	5.80 - 11.4 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	211 $^{\circ}\text{C}$	412 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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