

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

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 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-66-30-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength, Ultimate	160 MPa	23200 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Modulus of Elasticity	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	240 MPa	34800 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Compressive Strength	183 MPa	26500 psi	ASTM D695
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	3.24 $\mu\text{m/m-}^{\circ}\text{C}$	1.80 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	254 $^{\circ}\text{C}$	490 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 60 Hz	@Frequency 60 Hz	ASTM D150
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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