

Westlake Plastics Norylux™ Modified Polyphenylene Oxide 30% glass filled

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 30% Glass Filled

Material Notes:

Norylux modified PPO is a strong, engineering plastic with outstanding mechanical, thermal, and electric properties. Low moisture absorption and low thermal expansion make Norylux one of the most dimensionally stable thermoplastics available. It is used for a variety of structural applications including electrical housings, scientific instrumentation parts, and fluid handling components. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Norylux-Modified-Polyphenylene-Oxide-30-glass-filled.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ASTM D7852
Tensile Strength, Yield	121 MPa	17500 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	7.79 GPa	1130 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.2 µm/m-°C	14.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	285 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 1.47 mm	@Thickness 0.0580 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.15	3.15	ASTM D150

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
Dielectric Strength	53.0 kV/mm	1350 kV/in	ASTM D149
Dissipation Factor	0.0020 @Frequency 60 Hz	0.0020 @Frequency 60 Hz	ASTM D150

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