

Eurotec® Tecomid® NB40 GR15 NL XA70 PA6, 15% glass fiber reinforced, flame retardant - halogen (RoHS compliant), heat stabilized, natural

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant , Nylon 6, Heat Stabilized

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-GR15-NL-XA70-PA6-15-glass-fiber-reinforced-flame-retardant-halogen-RoHS-compliant-heat-stabilized-natural.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Moisture Absorption	1.70 % @Temperature 23.0 °C	1.70 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	65.0 kJ/m ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point	210 °C @Load 5.10 kg	410 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	825 °C @Thickness 2.00 mm	1520 °F @Thickness 0.0787 in	GWIT; IEC 60695
	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	GWFI; IEC 60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 250 °C	446 - 482 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	40.0 - 90.0 °C	104 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	ISO 960
Hold Pressure	50.0 - 100 MPa	7250 - 14500 psi	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Injection Speed	Medium - Fast	

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