

Eurotec® Tecomid® NA40 GR25 NL XA 42 PA 6.6 25% glass fiber reinforced, UL94 V0, red phosphorus

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Excellent stiffness/toughness balanceHigh mechanical strengthVery good thermal stabilityExcellent flammability characteristicsGood electrical propertiesHigh wear resistance and low frictionVery good chemical resistanceGood flow and processing properties
APPLICATIONS: AutomotiveElectrical/ElectronicFurnitureConstructionHome appliances

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NA40-GR25-NL-XA-42-PA-66-25-glass-fiber-reinforced-UL94-V0-red-phosphorus.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Filler Content	25 %	25 %	ISO 3451
Moisture Absorption at Equilibrium	1.6 %	1.6 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	23°C; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	8.50 GPa	1230 ksi	ISO 527
Flexural Strength	220 MPa	31900 psi	ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/eU

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
Charpy Impact, Notched	1.10 J/cm ² @Temperature -30.0 °C	5.24 ft-lb/in ² @Temperature -22.0 °F	ISO 179/eA
	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 179/eA

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	10 K/min; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75-1/2
Vicat Softening Point	250 °C	482 °F	50N; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	
Glow Wire Test	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	plaque; 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
Comparative Tracking Index	400 V	400 V	IEC 60112

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