

Eurotec® Tecomid® NA40 GR15 NL XA 20 PA 6.6 15% glass fiber reinforced, UL94 V0

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-GR15-NL-XA-20-PA-66-15-glass-fiber-reinforced-UL94-V0.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Filler Content	15 %	15 %	ISO 3451
Moisture Absorption at Equilibrium	1.7 %	1.7 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	23°C; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric $/\text{cm}^2$	English lb/in^2	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 178/2K

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	10 K/min; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75-1/2
Vicat Softening Point	255 °C	491 °F	50N; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	plaque; IEC 60695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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	250 V	250 V	IEC 60112

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