

Eurotec® Tecomid® NB40 MR25 NL IL PA 6 25% mineral reinforced, impact modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-NB40-MR25-NL-IL-PA-6-25-mineral-reinforced-impact-modified.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Filler Content	25 %	25 %	ISO 3451
Moisture Absorption at Equilibrium	1.9 %	1.9 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	23°C; ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179/eA Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10 K/min; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75-1/2
Vicat Softening Point	200 °C	392 °F	50N; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 °C	1200 °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	500 V	500 V	IEC 60112

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