

Eurotec® Tecomid® NB50 NL IT PA 6 super tough

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-NB50-NL-IT-PA-6-super-tough.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	2.2 %	2.2 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	23°C; ISO 62
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	200 %	200 %	ISO 527
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	95.0 kJ/m ²	45.2 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/eA
	@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 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/2
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 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	600 V	600 V	IEC 60112

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