

Eurotec® Tecomid® NB40 NL IH PA 6 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-NL-IH-PA-6-impact-modified.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	2.3 %	2.3 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	23°C; ISO 62
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Tensile Modulus	1.50 GPa	218 ksi	ISO 527
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	80.0 kJ/m ²	38.1 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	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J/cm ²	40.5 ft-lb/in ²	

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