

Eurotec® Tecomid® NB40 NL E PA 6 lubricated, nucleated

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Excellent stiffness/toughness balance High mechanical strength Very good thermal stability Excellent flammability characteristics Good electrical properties High wear resistance and low friction Very good chemical resistance Good flow and processing properties
APPLICATIONS: Automotive Electrical/Electronic Furniture Construction Home appliances

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-NL-E-PA-6-lubricated-nucleated.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	3.0 %	3.0 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	10 %	10 %	23°C; ISO 62
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	3.00 GPa	435 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	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	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 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)	65.0 °C	149 °F	ISO 75-1/2
Vicat Softening Point	200 °C	392 °F	50N; ISO 306
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	750 °C	1380 °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	600 V	600 V	IEC 60112

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