

Eurotec® Tecomid® NB40 KK30 NL PA 6 30% glass fiber/mineral reinforced, low warpage

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-KK30-NL-PA-6-30-glass-fibermineral-reinforced-low-warpage.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ISO 3451
Moisture Absorption at Equilibrium	2.1 %	2.1 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	6.5 %	6.5 %	23°C; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.600 J/cm ²	2.86 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/eA Comments
	0.700 J/cm²	3.33 ft-lb/in²	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 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ISO 75-1/2
Vicat Softening Point	210 °C	410 °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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