

Eurotec® Tecomid® NB40 NL E PA6, unfilled, natural

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-NL-E-PA6-unfilled-natural.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption	3.00 % @Temperature 23.0 °C	3.00 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
Tensile Strength, Yield	75.0 MPa	10900 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180/1U
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	ISO 75
Deflection Temperature at 1.8 MPa	65.0 °C	149 °F	ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point	200 °C @Load 5.10 kg	392 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 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	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 260 °C	464 - 500 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Hold Pressure	50.0 - 100 MPa	7250 - 14500 psi	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Injection Speed	Medium - Fast	

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