

Eurotec® Tecomid® NT40 NL PPA, unfilled, natural

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NT40-NL-PPA-unfilled-natural.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	2.40 % @Temperature 23.0 °C	2.40 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
Melting Point	315 °C	599 °F	[10 K/min], ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ISO 75
Vicat Softening Point	245 °C @Load 5.10 kg	473 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	
	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 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	320 - 340 °C	608 - 644 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	ISO 960
Hold Pressure	40.0 - 80.0 MPa	5800 - 11600 psi	

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

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