

Eurotec® Tecomid® NA40 NL FA50 PA6.6, unfilled, flame retardant - halogen free, natural

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NA40-NL-FA50-PA66-unfilled-flame-retardant-halogen-free-natural.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption	2.30 % @Temperature 23.0 °C	2.30 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Tensile Modulus	3.75 GPa	544 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
	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75
Vicat Softening Point	245 °C @Load 5.10 kg	473 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
Glow Wire Test	775 °C	1430 °F	GWIT; IEC 60695
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	GWFI; 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	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	260 - 280 °C	500 - 536 °F	
Feed Temperature	60.0 - 80.0 °C	140 - 176 °F	Throat
Mold Temperature	50.0 - 100 °C	122 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	ISO 960
Hold Pressure	50.0 - 100 MPa	7250 - 14500 psi	

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

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