

## Eurotec® Tecomid® NT40 GR50 NL HS PPA, 50% glass fiber reinforced, heat stabilized, natural

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

### Material Notes:

Information provided by Eurotec®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecomid-NT40-GR50-NL-HS-PPA-50-glass-fiber-reinforced-heat-stabilized-natural.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NT40-GR50-NL-HS-PPA-50-glass-fiber-reinforced-heat-stabilized-natural.php)

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	1.20 % @Temperature 23.0 °C	1.20 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	250 MPa	36300 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	18.0 GPa	2610 ksi	ISO 527
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	14.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	6.66 ft-lb/in <sup>2</sup> @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 0.46 MPa (66 psi)	305 °C	581 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	290 °C	554 °F	ISO 75
Vicat Softening Point	295 °C @Load 5.10 kg	563 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@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	550 V	550 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	140 - 180 °C	284 - 356 °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	Fast	

## Contact Songhan Plastic Technology Co.,Ltd.

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