

## Eurotec® Tecomid® NB40 GR50 NL PA 6 50% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Excellent stiffness/toughness balance High mechanical strength Very good thermal stability Excellent flammability characteristics Good electrical properties High wear resistance and low friction Very good chemical resistance Good flow and processing properties  
**APPLICATIONS:** Automotive Electrical/Electronic Furniture Construction Home appliances

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecomid-NB40-GR50-NL-PA-6-50-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-GR50-NL-PA-6-50-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Filler Content	50 %	50 %	ISO 3451
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	4.5 %	4.5 %	23°C; ISO 62
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	225 MPa	32600 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	15.0 GPa	2180 ksi	ISO 527
Flexural Strength	300 MPa	43500 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ISO 178
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	21.0 kJ/m <sup>2</sup>	9.99 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	10.5 J/cm <sup>2</sup>	50.0 ft-lb/in <sup>2</sup>	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	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)	220 °C	428 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75-1/2
Vicat Softening Point	215 °C	419 °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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China