

## Eurotec® Tecomid® NB40 GR40 NL PA 6 40% 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-GR40-NL-PA-6-40-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-GR40-NL-PA-6-40-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ISO 1183
Filler Content	40 %	40 %	ISO 3451
Moisture Absorption at Equilibrium	1.8 %	1.8 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	23°C; ISO 62
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527
Flexural Strength	270 MPa	39200 psi	ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	19.0 kJ/m <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup>	40.5 ft-lb/in <sup>2</sup>	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	1.60 J/cm <sup>2</sup> Metric	7.61 ft-lb/in <sup>2</sup> English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.00 J/cm <sup>2</sup>	9.52 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)	212 °C	414 °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

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