

## Eurotec® Tecomid® NB40 NL RM PA 6 low friction and wear

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-NL-RM-PA-6-low-friction-and-wear.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-NL-RM-PA-6-low-friction-and-wear.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	3.0 %	3.0 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	9.0 %	9.0 %	23°C; ISO 62
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	ISO 179/eA Comments
	@ 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)	185 °C	365 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/2
Vicat Softening Point	200 °C	392 °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	750 °C	1380 °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	600 V	600 V	IEC 60112

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