

## Eurotec® Tecomid® NB40 NL IL PA 6 impact modified

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-IL-PA-6-impact-modified.php](http://www.lookpolymers.com/polymer_Eurotec-Tecomid-NB40-NL-IL-PA-6-impact-modified.php)

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	2.5 %	2.5 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	23°C; ISO 62
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
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	
	45.0 kJ/m <sup>2</sup>	21.4 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	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.80 J/cm <sup>2</sup>	22.8 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/eA Comments
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Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10 K/min; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/2
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 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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