

DSM Novamid® 1010GN2-30 NAT/BK37 PA6-GF30 FR(17)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

30% Glass Reinforced, Flame Retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1010GN2-30-NATBK37-PA6-GF30-FR17.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	dry; ISO 1183
Moisture Absorption	1.70 %	1.70 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	cond; ISO 527-1/-2
	160 MPa	23200 psi	dry; ISO 527-1/-2
Elongation at Break	1.7 %	1.7 %	dry; ISO 527-1/-2
	2.6 %	2.6 %	cond; ISO 527-1/-2
Tensile Modulus	8.30 GPa	1200 ksi	cond; ISO 527-1/-2
	12.1 GPa	1750 ksi	dry; ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	cond; ISO 178
	260 MPa	37700 psi	dry; ISO 178
Flexural Modulus	8.30 GPa	1200 ksi	cond; ISO 178
	11.5 GPa	1670 ksi	dry; ISO 178
Charpy Impact Unnotched	5.40 J/cm ²	25.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.40 J/cm ²	30.5 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.40 J/cm ²	6.66 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	cond: ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	dry; IEC 60695-11-10
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+14 ohm-cm	6.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	6.00e+13 ohm	6.00e+13 ohm	cond; IEC 60093
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
	5.0 @Frequency 100 Hz	5.0 @Frequency 100 Hz	dry; IEC 60250
Dielectric Strength	23.0 kV/mm	584 kV/in	dry; IEC 60243-1
Dissipation Factor	0.013 @Frequency 100 Hz	0.013 @Frequency 100 Hz	dry; IEC 60250
	0.019 @Frequency 1.00e+6 Hz	0.019 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	225 V	225 V	dry; IEC 60112

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