

DSM Novamid® 1013G30 1 NA PA6-GF30

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

Material Notes:

30% Glass Reinforced, Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1013G30-1-NA-PA6-GF30.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	dry; ISO 1183
Moisture Absorption	2.40 %	2.40 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	cond; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	3.3 %	3.3 %	dry; ISO 527-1/-2
	5.6 %	5.6 %	cond; ISO 527-1/-2
Tensile Modulus	5.70 GPa	827 ksi	cond; ISO 527-1/-2
	9.60 GPa	1390 ksi	dry; ISO 527-1/-2
Flexural Strength	165 MPa	23900 psi	cond; ISO 178
	260 MPa	37700 psi	dry; ISO 178
Flexural Modulus	5.60 GPa	812 ksi	cond; ISO 178
	9.20 GPa	1330 ksi	dry; ISO 178
Charpy Impact Unnotched	8.10 J/cm ²	38.5 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.20 J/cm ²	43.8 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.90 J/cm ²	9.04 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	30.0 µm/m-°C	16.7 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 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)	205 °C	401 °F	dry; ISO 75-1/-2
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	dry; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	2.00e+14 ohm	2.00e+14 ohm	cond; IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	dry; IEC 60250
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
Dielectric Strength	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
Dissipation Factor	0.014 @Frequency 100 Hz	0.014 @Frequency 100 Hz	dry; IEC 60250
	0.021 @Frequency 1.00e+6 Hz	0.021 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	475 V	475 V	dry; IEC 60112

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