

DSM Novamid® 1015G33-8 NAT PA6-GF33

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

Material Notes:

33% Glass Reinforced, Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1015G33-8-NAT-PA6-GF33.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	dry; ISO 1183
Moisture Absorption	2.30 %	2.30 %	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	118 MPa	17100 psi	cond; ISO 527-1/-2
	185 MPa	26800 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	cond; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	cond; ISO 527-1/-2
	9.80 GPa	1420 ksi	dry; ISO 527-1/-2
Flexural Strength	175 MPa	25400 psi	cond; ISO 178
	280 MPa	40600 psi	dry; ISO 178
Flexural Modulus	5.80 GPa	841 ksi	cond; ISO 178
	9.40 GPa	1360 ksi	dry; ISO 178
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 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	
	2.20 J/cm ²	10.5 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)	206 °C	403 °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	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Dissipation Factor	0.011 @Frequency 100 Hz	0.011 @Frequency 100 Hz	dry; IEC 60250
	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	525 V	525 V	dry; IEC 60112

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