

DSM Novamid® 1010GN2-20 NAT/BK37 PA6-GF20 FR(17)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

20% Glass Reinforced, Flame Retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1010GN2-20-NATBK37-PA6-GF20-FR17.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	dry; ISO 1183
Moisture Absorption	1.90 %	1.90 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	dry; ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	dry; ISO 527-1/-2
Tensile Modulus	9.20 GPa	1330 ksi	dry; ISO 527-1/-2
Flexural Strength	155 MPa	22500 psi	cond; ISO 178
	205 MPa	29700 psi	dry; ISO 178
Flexural Modulus	5.50 GPa	798 ksi	cond; ISO 178
	7.70 GPa	1120 ksi	dry; ISO 178
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.50 J/cm ²	26.2 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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

Thermal Properties CTE, linear, transverse to Flow	Metric 10 ⁻⁶ µm/m-°C	English 50 µin/in-°F	Comments 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	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	dry; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	8.00e+12 ohm	8.00e+12 ohm	cond; IEC 60093
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
Dielectric Strength	23.0 kV/mm	584 kV/in	dry; IEC 60243-1
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	225 V	225 V	dry; IEC 60112

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