

DSM Novamid® 1010GN8-30 NAT PA6-GF30 FR

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

Material Notes:

30% Glass Reinforced, Flame Retardant, Halogen free

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1010GN8-30-NAT-PA6-GF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	dry; ISO 1183
Moisture Absorption	1.50 %	1.50 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	100 MPa	14500 psi	cond; ISO 527-1/-2
	140 MPa	20300 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	cond; ISO 527-1/-2
Tensile Modulus	8.50 GPa	1230 ksi	cond; ISO 527-1/-2
	12.0 GPa	1740 ksi	dry; ISO 527-1/-2
Flexural Strength	150 MPa	21800 psi	cond; ISO 178
	220 MPa	31900 psi	dry; ISO 178
Flexural Modulus	6.20 GPa	899 ksi	cond; ISO 178
	10.2 GPa	1480 ksi	dry; ISO 178
Charpy Impact Unnotched	6.30 J/cm ²	30.0 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.70 J/cm ²	31.9 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	cond: ISO 179/1eA

Thermal Properties	Metric	English	Comments
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)	210 °C	410 °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	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	cond; IEC 60093
Dielectric Constant	3.2 @Frequency 1.00e+6 Hz	3.2 @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	600 V	600 V	dry; IEC 60112

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