

DSM Novamid® 3021GH30 NAT PA66-GF30

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

30% Glass Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-3021GH30-NAT-PA66-GF30.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	dry; ISO 1183
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	cond; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	2.6 %	2.6 %	dry; ISO 527-1/-2
	4.1 %	4.1 %	cond; ISO 527-1/-2
Tensile Modulus	6.30 GPa	914 ksi	cond; ISO 527-1/-2
	9.70 GPa	1410 ksi	dry; ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	cond; ISO 178
	265 MPa	38400 psi	dry; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	cond; ISO 178
	8.30 GPa	1200 ksi	dry; ISO 178
Charpy Impact Unnotched	8.40 J/cm ²	40.0 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 J/cm ²	52.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.30 J/cm ²	6.19 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
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	244 °C	471 °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	4.00e+14 ohm	4.00e+14 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	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Dissipation Factor	0.019 @Frequency 1.00e+6 Hz	0.019 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	550 V	550 V	dry; IEC 60112

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