

DSM Novamid® 1013GMF H2 NAT/BK37 PA6-GF30

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

Material Notes:

30% Glass Reinforced, Heat Stabilized, Injection Molding, Excellent Dimensional Stability

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1013GMF-H2-NATBK37-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	0.0070 cm/cm	0.0070 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	67.0 MPa	9720 psi	cond; ISO 527-1/-2
	135 MPa	19600 psi	dry; ISO 527-1/-2
Elongation at Break	3.6 %	3.6 %	dry; ISO 527-1/-2
	8.2 %	8.2 %	cond; ISO 527-1/-2
Tensile Modulus	3.70 GPa	537 ksi	cond; ISO 527-1/-2
	7.20 GPa	1040 ksi	dry; ISO 527-1/-2
Flexural Strength	110 MPa	16000 psi	cond; ISO 178
	210 MPa	30500 psi	dry; ISO 178
Flexural Modulus	3.10 GPa	450 ksi	cond; ISO 178
	6.60 GPa	957 ksi	dry; ISO 178
Charpy Impact Unnotched	5.80 J/cm ²	27.6 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.80 J/cm ²	37.1 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 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
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)	210 °C	410 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	dry; ISO 75-1/-2

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