

DSM Novamid® 1010G30 NA PA6-GF30

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

Material Notes:

30% Glass Reinforced, Injection Molding, Easy Molding Grade, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1010G30-NA-PA6-GF30.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	dry; ISO 1183
Moisture Absorption	2.40 %	2.40 %	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	158 MPa	22900 psi	dry; ISO 527-1/-2
Elongation at Break	2.1 %	2.1 %	dry; ISO 527-1/-2
Tensile Modulus	9.10 GPa	1320 ksi	dry; ISO 527-1/-2
Flexural Strength	245 MPa	35500 psi	dry; ISO 178
Flexural Modulus	8.60 GPa	1250 ksi	dry; ISO 178
Charpy Impact Unnotched	3.80 J/cm ² @Temperature 23.0 °C	18.1 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA

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
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min,dry; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	dry; ISO 75-1/-2
	HB	HB	

Flammability: UL 94 Thermal Properties	Metric @ Thickness 0.800 mm	English @ Thickness 0.0315 in	dry: IEC 60695-11-10 Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China