

## DSM Novamid® 1013G15 1 NA PA6-GF15

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

### Material Notes:

15% Glass Reinforced, Injection Molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Novamid-1013G15-1-NA-PA6-GF15.php](http://www.lookpolymers.com/polymer_DSM-Novamid-1013G15-1-NA-PA6-GF15.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	dry; ISO 1183
Moisture Absorption	3.00 %	3.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	70.0 MPa	10200 psi	cond; ISO 527-1/-2
	130 MPa	18900 psi	dry; ISO 527-1/-2
Elongation at Break	2.7 %	2.7 %	dry; ISO 527-1/-2
	8.7 %	8.7 %	cond; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	cond; ISO 527-1/-2
	5.80 GPa	841 ksi	dry; ISO 527-1/-2
Flexural Strength	115 MPa	16700 psi	cond; ISO 178
	200 MPa	29000 psi	dry; ISO 178
Flexural Modulus	2.90 GPa	421 ksi	cond; ISO 178
	5.40 GPa	783 ksi	dry; ISO 178
Charpy Impact Unnotched	3.90 J/cm <sup>2</sup>	18.6 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	10.6 J/cm <sup>2</sup>	50.4 ft-lb/in <sup>2</sup>	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	

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	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	194 °C	381 °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	6.00e+14 ohm-cm	6.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	8.00e+13 ohm	8.00e+13 ohm	cond; IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	dry; IEC 60250
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
Dielectric Strength	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
Dissipation Factor	0.013 @Frequency 100 Hz	0.013 @Frequency 100 Hz	dry; IEC 60250
	0.023 @Frequency 1.00e+6 Hz	0.023 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	400 V	400 V	dry; IEC 60112

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