

## DSM Novamid® 1017GH33 BK701 PA6-GF33

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

### Material Notes:

33% Glass Reinforced, Heat Stabilized, Injection Molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Novamid-1017GH33-BK701-PA6-GF33.php](http://www.lookpolymers.com/polymer_DSM-Novamid-1017GH33-BK701-PA6-GF33.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	dry; ISO 1183
Moisture Absorption	2.30 %	2.30 %	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	120 MPa	17400 psi	cond; ISO 527-1/-2
	175 MPa	25400 psi	dry; ISO 527-1/-2
Elongation at Break	2.9 %	2.9 %	dry; ISO 527-1/-2
	4.5 %	4.5 %	cond; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	cond; ISO 527-1/-2
	10.2 GPa	1480 ksi	dry; ISO 527-1/-2
Flexural Strength	175 MPa	25400 psi	cond; ISO 178
	280 MPa	40600 psi	dry; ISO 178
Flexural Modulus	5.70 GPa	827 ksi	cond; ISO 178
	9.20 GPa	1330 ksi	dry; ISO 178
Charpy Impact Unnotched	8.30 J/cm <sup>2</sup>	39.5 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.40 J/cm <sup>2</sup>	44.7 ft-lb/in <sup>2</sup>	cond; ISO 179/1eU
	@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>	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.60 J/cm <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Comments cond: ISO 179/1eA
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	20.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	dry; ISO 11359-1/-2
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)	204 °C	399 °F	dry; ISO 75-1/-2

## Contact Songhan Plastic Technology Co.,Ltd.

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