

## BASF Ultramid® 1603-2 NF2004 43% Glass Filled PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

### Material Notes:

Ultramid 1603-2 NF2004 is a 43% glass reinforced, heat stabilized injection molding nylon 6/6 with the highest level of glass reinforcement for maximum strength and stiffness.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-1603-2-NF2004-43-Glass-Filled-PA66-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-1603-2-NF2004-43-Glass-Filled-PA66-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in <sup>3</sup>	dry; ISO 1183
Water Absorption	4.8 %	4.8 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	beginning dry (23°C/50% R.H.); ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	167 MPa	24200 psi	5mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	5mm/min; ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	1mm/min; ISO 527
Flexural Modulus	9.00 GPa	1310 ksi	ISO Data
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO Test
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	ISO 179
	8.70 J/cm <sup>2</sup>	41.4 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 179
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	257 °C	495 °F	10 K/min
	257 °C	495 °F	ASTM Test

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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