

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

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	4.8 %	4.8 %	ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	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 at Break	234 MPa	33900 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	235 MPa	34100 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
Tensile Modulus	13.8 GPa	2000 ksi	1mm/min; ISO 527
Flexural Strength	331 MPa	48000 psi	ASTM Test
Flexural Modulus	11.0 GPa	1600 ksi	ASTM Test
	12.9 GPa	1870 ksi	ISO Data
Izod Impact, Notched	1.39 J/cm @Thickness 3.17 mm	2.60 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179

Mechanical Properties	Metric	English	Comments
	@ 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
Deflection Temperature at 0.46 MPa (66 psi)	264 °C	507 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	253 °C	487 °F	ASTM Test
	256 °C	493 °F	ISO 75

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

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