

BASF Ultramid® B3WG6 BK00564 BGVW 30% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid B3WG6 BK00564 BGVW is a 30% glass fiber reinforced, pigmented black, heat stabilized injection molding PA6 grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3WG6-BK00564-BGVW-30-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	2.1 %	2.1 %	24 hour; ISO Test
	6.6 %	6.6 %	ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	23°C/50% R.H.; ISO 62
Viscosity Test	140 cm ³ /g	140 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	177 MPa	25700 psi	5mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5mm/min; ISO 527
Tensile Modulus	8.83 GPa	1280 ksi	ASTM Test
	10.5 GPa	1520 ksi	1mm/min; ISO 527
Flexural Modulus	8.60 GPa	1250 ksi	ISO Data
Izod Impact, Notched	1.07 J/cm @Temperature -40.0 °C	2.00 ft-lb/in @Temperature -40.0 °F	ASTM Test
	1.50 J/cm @Thickness 3.17 mm	2.81 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO Test

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75
	210 °C	410 °F	ASTM Test

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093

Descriptive Properties	Value	Comments
Color	BK00564 BGVW	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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