

Ultramid® B 3WG6 BK00564

Polyamide 6
BASF Corporation

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

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Creep Resistance • Good Dimensional Stability • Good Flow	• Good Processability • Good Stiffness • Good Thermal Aging Resistance • Heat Stabilized • High Rigidity	• Low Viscosity • Oil Resistant • Semi Crystalline
Uses	• Automotive Applications • Automotive Under the Hood	• Housings • Industrial Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1360	kg/m ³	ISO 1183 ²
Water Absorption			
24 hr, 23°C	2.1	%	ISO 62
Saturation	6.6	%	ISO 62 ²
Equilibrium	2.1	%	ISO 62 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	10300	MPa	ISO 527-2 ²
Tensile Stress (Break)	174	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.7	%	ISO 527-2 ²
Flexural Modulus (23°C)	8500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	10.0	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	205	°C	ISO 75-2 ²
Melting Temperature (DSC)	220	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+12	ohms	IEC 60093 ²
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 ²

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	270 to 295	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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