Ultramid® B 3WG7 BK00564

Polyamide 6

BASF Corporation

Product Description
Ultramid B3WG7 BK00564 is a 35% glass fiber reinforced, pigmented black, injection molding PA6 grade for highly rigid, dimensionally stable components which are resistant to high temperature aging and have improved retention of properties in a hot water environment.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 35% 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	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1410	kg/m³	ISO 1183 [2]
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	12600	MPa	ISO 527-2 [2]
Tensile Stress (Break)	188	MPa	ISO 527-2 [2]
Tensile Strain (Break)	2.9	%	ISO 527-2 [2]
Flexural Modulus (23°C)	9720	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy notched impact strength (23°C)	9.20	kJ/m²	ISO 179/1eA [2]
Notched Izod Impact Strength (23°C)	11.2	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa)	215	°C	ISO 75-2 [2]
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface resistivity	1.0E+13	ohms	IEC 60093 [2]
Volume resistivity	1.0E+13	ohm·m	IEC 60093 [2]
Relative Permittivity (1 MHz)	3.90		IEC 60250 [2]
Dissipation Factor			IEC 60250 [2]
100 Hz	0.021		
1 MHz	0.021		
Comparative tracking index	450		IEC 60112 [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.

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