

## Ultramid® B3WG7 BK00564

### **BASF Corporation - Polyamide 6**

Monday, November 4, 2019

#### **General Information**

#### **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.

#### Applications

Typical applications include automotive clutch and accelerator pedals.

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Commercial: Active
North America
Glass Fiber, 35% Filler by Weight
<ul><li> Heat Aging Resistant</li><li> High Rigidity</li><li> High Dimensional Stability</li><li> Oil Resistant</li></ul>
Automotive Applications
• EC 1907/2006 (REACH)
RoHS Compliant
GM GMP.PA6.009 Color: Black
• Black
• Pellets
Injection Molding

ASTM & ISO Properties 1				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41		g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	6.2		%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.0		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.60E+6		psi	ISO 527-2
Tensile Stress (Break, 73°F)	27300	-	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0		%	ISO 527-2
Flexural Modulus (73°F)	1.45E+6		psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	5.7		ft·lb/in²	
Notched Izod Impact Strength				ISO 180
73°F	5.7		ft·lb/in²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	419		°F	
Melting Temperature (DSC)	428		°F	ISO 3146



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Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms∙cm	IEC 60093
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.021	0.19		
1 MHz	0.021	0.19		
Comparative Tracking Index	450	450	V	IEC 60112

Processing Information				
Injection	Dry Unit			
Drying Temperature	181 °F			
Drying Time	2.0 to 4.0 hr			
Suggested Max Moisture	0.15 %			
Processing (Melt) Temp	518 to 563 °F			
Mold Temperature	176 to 203 °F			
Injection Pressure	508 to 1810 psi			
Injection Rate	Fast			

#### **Notes**

<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.