Product Information

Sep 2009

# Ultramid® B3WG6 BK00564 BGVW Polyamide 6



## **Product Description**

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

### **Applications**

Typical applications include automotive manifolds and pedals.

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ISO Test Method		2.1 6.6
		2.1 6.6
		6.6
	Dry	O 1141
1133		Conditioned
	40	-
ISO Test Method	Dry	Conditioned
527		
	9,600	5,600
527		
	180	90
527		
	3	6
178		
	250	150
178		
	8,300	5,000
<b>ISO Test Method</b>	Dry	Conditioned
180		
	12	-
179		
	12	20
	9	-
179		
	80	-
	65	-
ISO Test Method	Dry	Conditioned
3146	220	-
75	205	-
75	218	-
	1SO Test Method 527 527 527 178 178 178 180 179 179 179 180 Test Method 3146 75	ISO Test Method     Dry       527     9,600       527     180       527     3       178     250       178     8,300       ISO Test Method     Dry       180     12       179     12       9     179       179     80       65     65       ISO Test Method     Dry       3146     220       75     205

**Processing Guidelines** 

**Material Handling** 

# Ultramid® B3WG6 BK00564 BGVW



Max. Water content: 0.10%

Product is supplied in sealed containers and drying prior to molding is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 80 °C (176 °F) is recommended. Drying time is dependent on moisture level, but 2-4 hours is generally sufficient. Further information concerning safe handling procedures can be obtained from the Material Safety Data Sheet. Alternatively, please contact your BASF representative.

**Typical Profile** 

Melt Temperature 270-295 °C (518-563 °F) Mold Temperature 80-95 °C (176-203 °F) Injection and Packing Pressure 35-125 bar (500-1500 psi)

#### **Mold Temperatures**

This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics are critical, a mold surface temperature of 80-95 °C (176-203 °F) is recommended.

#### **Pressures**

Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off.

Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. Minimal back pressure should be utilized to prevent glass breakage.

#### Fill Rate

Fast fill rates are recommended to ensure uniform melt delivery to the cavity and prevent premature freezing. Surface appearance is directly affected by injection rate.

#### Note

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General Information: 800-BC-RESIN Technical Assistance: 800-527-TECH (734-324-5150) Web address: http://www.plasticsportal.com/usa

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