## **Product Information**

# Ultramid® B3WG5 BK00564 Polyamide 6



# **Product Description**

Ultramid B3WG5 BK00564 is a 25% glass fiber reinforced, pigmented black injection molding PA6 grade with heataging resistance.

# **Applications**

Typical applications include fan wheels.

PHYSICAL	ISO Test Method 1183	Property Value 1.31	
Density, g/cm			
RHEOLOGICAL	ISO Test Method	Dry	Conditioned
Melt Volume Rate (275 C/5 Kg), cc/10min.	1133	50	-
MECHANICAL	ISO Test Method	Dry	Conditioned
Tensile Modulus, MPa	527		
23C		7,700	-
Tensile stress at yield, MPa	527		
23C		150	-
Tensile stress at break, MPa	527		
23C		150	-
Tensile strain at yield, %	527		
23C		3.3	-
Tensile strain at break, %	527		
23C		3.6	-
IMPACT	ISO Test Method	Dry	Conditioned
Izod Notched Impact, kJ/m <sup>2</sup>	180		
23C		7.5	15
-40C		6.5	-
Charpy Notched, kJ/m <sup>2</sup>	179		
23C		7.0	-
THERMAL	ISO Test Method	Dry	Conditioned
Melting Point, C	3146	220	-
HDT A, C	75	200	-
HDT B, C	75	210	-





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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 degC (176-203 degF) 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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