

Ultramid® B3ZG4

Polyamide 6

BASF Corporation

Message:

Ultramid B3ZG4 is an impact-modified, 20% glass fiber reinforced injection molding PA6 grade.

Applications

Typical applications include industrial housings and caps.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Impact Modifier		
Features	Impact Modified		
Uses	Caps		
	Housings		
	Industrial Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6400	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	125	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	5700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	9.0	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	9.0	kJ/m ²	
23°C	16	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.080	%
Rear Temperature	245 to 275	°C
Middle Temperature	260 to 285	°C
Front Temperature	270 to 295	°C
Nozzle Temperature	270 to 295	°C
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	

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