

Ultramid® B3ZG8 BK20560

Polyamide 6

BASF Corporation

Message:

Ultramid B3ZG8 BK20560 is an impact-modified, pigmented black and 40% glass fiber reinforced injection molding PA6 grade having very high impact strength and rigidity.

Applications

Typical applications include airbag housings and half-shells for suitcases.

General Information				
UL YellowCard		E36632-531666	E41871-233708	
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Impact Modifier		
Features		High Impact Resistance		
		High Rigidity		
		Impact Modified		
		Oil Resistant		
Uses		Automotive Applications		
		Housings		
		Luggage		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	4.00	--	cm³/10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11600	6700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	160	115	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	9.0	%	ISO 527-2
Flexural Modulus (23°C)	9500	6100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Notched Izod Impact Strength				ISO 180
-30°C	14	--	kJ/m ²	
23°C	22	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Injection	Dry	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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