



Ultramid® B3ZG8 BK20560

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Additive	• Impact Modifier
Features	• High Rigidity • Oil Resistant • Impact Modified • Ultra High Impact Resistance
Uses	• Automotive Applications • Housings • Luggage
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMP.PA6.072 Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) 235°C/5.0 kg	4.00	--	cm ³ /10min	ISO 1133
Water Absorption Saturation, 73°F	5.0	--	%	ISO 62
Water Absorption Equilibrium, 73°F, 50% RH	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.68E+6	972000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	23200	16700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	4.0	9.0	%	ISO 527-2
Flexural Modulus (73°F)	1.38E+6	885000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength -22°F	6.7	--	ft·lb/in ²	ISO 180
73°F	10	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed	428	--	°F	ISO 75-2/B

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 264 psi, Unannealed	401	--	°F	ISO 75-2/A
Melting Temperature (DSC)	428	--	°F	ISO 3146

Processing Information			
Injection	Dry Unit		
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.080	%	
Rear Temperature	473 to 527	°F	
Middle Temperature	500 to 545	°F	
Front Temperature	518 to 563	°F	
Nozzle Temperature	518 to 563	°F	
Processing (Melt) Temp	518 to 563	°F	
Mold Temperature	176 to 203	°F	
Injection Pressure	508 to 1810	psi	
Injection Rate	Fast		

Notes

¹ Typical properties: these are not to be construed as specifications.