



Ultramid® B3ZG6 BK30564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3ZG6 BK30564 is an impact-modified, pigmented black, 30% glass fiber reinforced injection molding PA6 grade for industrial items having very high impact strength and rigidity.

Applications

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

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Impact Modifier
Features	• High Rigidity • Impact Modified • Oil Resistant • Ultra High Impact Resistance
Uses	• Automotive Applications • Housings • Industrial Applications • Luggage
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW15702-021381 PA6-I-GF30 • GM QK 002713 EH
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 73°F)	6.2	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.28E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	21800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.2	%	ISO 527-2
Flexural Modulus (73°F)	1.15E+6	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	3.8	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180
-22°F	3.8	ft·lb/in ²	
73°F	7.6	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature (DSC)	428	°F	ISO 3146

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Processing Information

Injection	Nominal Value	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.