

# Ultramid® B 3ZG3 BK30564

Polyamide 6

BASF Corporation

## Product Description

Ultramid B3ZG3 BK30564 is an impact-modified, pigmented black, 15% glass fiber reinforced injection molding PA6 grade.

## General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Abrasion Resistance • Good Stiffness • Low Viscosity • Good Chemical Resistance • Good Thermal Aging • Oil Resistant • Good Dimensional Stability Resistance • Semi Crystalline • Good Flow • Good Toughness • Semi Rigid • Good Impact Resistance • Heat Stabilized • Good Processability • Impact Modified • Low Temperature Toughness
Uses	• Automotive Applications • Housings • Power/Other Tools • Automotive Exterior Parts • Lawn and Garden Equipment • Sporting Goods
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Isochronous Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1220	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			
24 hr, 23°C	2.4	%	ISO 62
Saturation	7.5	%	ISO 62 <sup>2</sup>
Equilibrium	2.4	%	ISO 62 <sup>2</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	5250	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	110	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.8	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	4720	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	9.40	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Notched Izod Impact Strength			ISO 180
-40°C	3.90	kJ/m <sup>2</sup>	
23°C	9.00	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	217	°C	
1.8 MPa	196	°C	
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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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Injection	Nominal Value	Unit
Injection Pressure	3.50 to 12.5	MPa
Injection Rate		Fast

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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