Ultramid® B 3EG3 BK00564

Polyamide 6

BASF Corporation

Product Description
Ultramid B3EG3 BK00564 is a 15% glass fiber reinforced, pigmented black injection molding PA6 grade for housings with enhanced impact resistance.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Abrasion Resistance • Good Chemical Resistance • Good Dimensional Stability • Good Flow	• Good Impact Resistance • Good Processability • Good Stiffness • Good Thermal Aging Resistance	• Heat Stabilized • Low Viscosity • Oil Resistant • Semi Crystalline
Uses	• Automotive Applications	• Wheels	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1230	kg/m³	ISO 1183 [2]
Water Absorption			
24 hr, 23°C	2.6	%	ISO 62
Saturation	7.7	%	ISO 62 [2]
Equilibrium	2.3	%	ISO 62 [2]
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	6060	MPa	ISO 527-2 [2]
Tensile Stress (Break)	115	MPa	ISO 527-2 [2]
Tensile Strain (Break)	2.5	%	ISO 527-2 [2]
Flexural Modulus (23°C)	5300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy notched impact strength (23°C)	5.00	kJ/m²	ISO 179/1eA [2]
Notched Izod Impact Strength			ISO 180
-40°C	4.50	kJ/m²	
23°C	5.00	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2 [2]
0.45 MPa	217	°C	
1.8 MPa	200	°C	
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohm·cm	IEC 60093
Dielectric Constant (1 MHz)	3.80		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	250		
1 MHz	250		
Comparative Tracking Index	550	V	IEC 60112

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Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Notes

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

[2] Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.