Ultramid® B3ZG3 BK30564

Polyamide 6

BASF Corporation

Message:

Ultramid B3ZG3 BK30564 is an impact-modified, pigmented black, 15% glass fiber reinforced injection molding PA6 grade.
Applications
Typical applications include automobile cable conduits.

General Information		
UL YellowCard	E36632-531664	E41871-233706
Filler / Reinforcement	Glass Fiber,15% Filler by Weight	
Additive	Impact Modifier	
Features	Impact Modified Oil Resistant	
Uses	Automotive Applications Conduit	
Agency Ratings	EC 1907/2006 (REACH)	
RoHS Compliance	RoHS Compliant	
Appearance	Black	
Forms	Pellets	
Processing Method	Injection Molding	
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1) Isochronous Stress vs. Strain (ISO 11403-1) Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)	

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	7.5	%	
Equilibrium, 23°C, 50% RH	2.4	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	5300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.8	%	ISO 527-2
Flexural Modulus (23°C)	4500	MPa	ISO 178
Flexural Stress (23°C)	150	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m²	
23°C	12	kJ/m²	
Notched Izod Impact Strength			ISO 180
-30°C	4.0	kJ/m²	
23°C	12	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°C	ISO 75-2/A
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	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

Recommended distributors for this material

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