

Ultramid® B3EG3 BK00564

Polyamide 6

BASF Corporation

Message:

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

Applications

Typical applications include automotive mirror housings and wheels of mountain bikes.

General Information				
UL YellowCard		E36632-531646	E41871-233685	
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Impact Resistance		
		Oil Resistant		
Uses		Automotive Applications		
		Housings		
		Wheels		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	7.7	--	%	
Equilibrium, 23°C, 50% RH	2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6060	--	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	115	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	--	%	ISO 527-2
Flexural Modulus (23°C)	5300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	--	kJ/m ²	ISO 179
Notched Izod Impact Strength				ISO 180
-30°C	4.5	--	kJ/m ²	
23°C	5.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.80	7.00		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.025	0.24		
1 MHz	0.025	0.24		

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