



Ultramid® B3EG3 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
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
Automotive Specifications	• GM GMP.PA6.029 Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	7.7	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	879000	--	psi	ISO 527-2
Tensile Stress (Break, 73°F)	16700	--	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	--	%	ISO 527-2
Flexural Modulus (73°F)	769000	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	2.4	--	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
-22°F	2.1	--	ft·lb/in ²	
73°F	2.4	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	423	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	392	--	°F	
Melting Temperature (DSC)	428	--	°F	ISO 3146

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Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	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		

Notes

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