



Ultramid® B3EG7 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3EG7 BK00564 is a 35% glass fiber reinforced injection molding PA6 grade.

Applications

Typical applications include industrial articles and electrical insulating parts.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Oil Resistant
Uses	• Electronic Insulation • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	6.2	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.60E+6	1.04E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	29000	18900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	7.0	%	ISO 527-2
Flexural Modulus (73°F)	1.45E+6	914000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F	8.6	16	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179
73°F	48	52	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180
73°F	9.0	13	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	428	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	419	--	°F	
Melting Temperature (DSC)	428	--	°F	ISO 3146

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Processing Information

Injection	Dry	Unit
Drying Temperature	181	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	518 to 563	°F
Mold Temperature	176 to 203	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

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