Ultramid® B3EG6 BK00564

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Ultramid B3EG6 BK00564 is a 30% glass fiber reinforced, pigmented black 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, 30% Filler by Weight	
Features	• Oil Resistant	
Uses	• Electronic Insulation	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	• RoHS Compliant	
Automotive Specifications	• FORD WSK-M4D664-A	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F	6.0	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.38E+6	870000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	26100	15200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	6.0	%	ISO 527-2
Flexural Modulus (73°F)	1.25E+6	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
73°F	4.8	9.5	ft·lb/in²	
Notched Izod Impact Strength				ISO 180
-22°F	4.0	--	ft·lb/in²	
73°F	4.8	--	ft·lb/in²	
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	410	--	°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.