

Ultramid® B3EG6 BK00564

Polyamide 6

BASF Corporation

Message:

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 Information				
UL YellowCard		E36632-531648	E41871-233687	
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		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9500	6000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	180	105	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	6.0	%	ISO 527-2
Flexural Modulus (23°C)	8600	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	20	kJ/m ²	ISO 179
Notched Izod Impact Strength				ISO 180
-30°C	8.4	--	kJ/m ²	
23°C	10	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Injection	Dry	Unit		
Drying Temperature	83.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
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			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

