

Ultramid® B3G8 BK00564

Polyamide 6

BASF Corporation

Message:

Ultramid B3G8 BK00564 is a 40% glass reinforced, pigmented black, injection molding PA6 grade.

Applications

Typical applications include pedals/pedal module.

General Information				
UL YellowCard		E36632-586925		
Filler / Reinforcement		Glass fiber reinforced material, 40% filler by weight		
Features		Oil resistance		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	5.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.8	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	160	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	12600	8200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	4.6	%	ISO 527-2
Flexural Modulus (23°C)	11200	7400	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	10	--	kJ/m ²	ISO 179
23°C	15	22	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C	75	--	kJ/m ²	ISO 179
23°C	85	110	kJ/m ²	ISO 179
Notched Izod Impact				ISO 180
-40°C	10	--	kJ/m ²	ISO 180
23°C	12	--	kJ/m ²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Linear thermal expansion coefficient				
Flow	1.7E-5	--	cm/cm/°C	
Lateral	7.8E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Dielectric Strength	4.0	--	kV/mm	IEC 60243-1
Dissipation Factor (100 Hz)	0.014	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	83.0		°C	
Drying Time	2.0 - 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	270 - 295		°C	
Mold Temperature	80.0 - 95.0		°C	
Injection Pressure	3.50 - 12.5		MPa	
Injection Rate	Fast			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

