

Ultramid® B3WG7 BK00564

Polyamide 6

BASF Corporation

Message:

Ultramid B3WG7 BK00564 is a 35% glass fiber reinforced, pigmented black, injection molding PA6 grade for highly rigid, dimensionally stable components which are resistant to high temperature aging and have improved retention of properties in a hot water environment.

Applications

Typical applications include automotive clutch and accelerator pedals.

General Information				
UL YellowCard		E36632-531662	E41871-233704	
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Features		Good Dimensional Stability		
		Good Thermal Aging Resistance		
		High Rigidity		
		Oil Resistant		
Uses		Automotive Applications		
		Automotive Under the Hood		
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	1.41	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.2	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11000	--	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	188	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2
Flexural Modulus (23°C)	10000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	--	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	12	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	215	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.021	0.19		
1 MHz	0.021	0.19		
Comparative Tracking Index	450	450	V	IEC 60112
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			

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



WECHAT