

Ultramid® B3WGM24 BK30564

Polyamide 6

BASF Corporation

Message:

Ultramid B3WGM24 BK30564 is a 30% glass/mineral reinforced heat stabilized to high rigidity and high dimensional stability.

Applications

Typical applications include automobile engine covers, housings and automotive door handles.

General Information				
Filler / Reinforcement		Glass\Mineral,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Dimensional Stability		
		Heat Stabilized		
		High Rigidity		
		Oil Resistant		
Uses		Automotive Applications		
		Automotive Under the Hood		
		Housings		
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	1.37	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	7.2	--	%	
Equilibrium, 23°C, 50% RH	2.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	205	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9300	4200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	120	55.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	10	%	ISO 527-2
Flexural Modulus (23°C)	8400	--	MPa	ISO 178
Flexural Stress (23°C)	180	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179
-30°C	5.0	5.0	kJ/m ²	
23°C	7.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	50	45	kJ/m ²	
23°C	52	60	kJ/m ²	
Notched Izod Impact Strength (23°C)				ISO 180
5.5		13	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
CLTE - Transverse	3.6E-5	8.0E-5	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250
Comparative Tracking Index	400	--	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