

AKROMID® B3 GK 50 black (2311)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GK 50 black (2311) is a 50% glass bead reinforced polyamide 6 with low warpage and high surface appearance
Applications are housings and covers in the automotive, electro and furniture industry.

General Information			
Filler / Reinforcement	Glass Bead,50% Filler by Weight		
Features	Low Warpage		
	Pleasing Surface Appearance		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Furniture		
	Housings		
Appearance	Black		
Resin ID (ISO 1043)	PA6 GB50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.54	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.0	%	
Water Absorption (Saturation, 23°C)	4.7	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.5	%	ISO 1110
Reinforcement Content	50	%	ISO 1172
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5700	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ¹	5200	MPa	ISO 178
Flexural Stress ²	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	32	kJ/m ²	
23°C	42	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	188	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
Melting Temperature ³	225	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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

