

AKROMID® B3 GK 50 natural (3690)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GK 50 natural (3690) is a 50% glass bead reinforced polyamide 6 with low warpage and high surface appearance and light inherent color 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	Natural Color		
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
Comparative Tracking Index (Solution A)	500	V	IEC 60112
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
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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