

AKROMID® B3 GK 30 black (1827)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GK 30 black (1827) is a 30% glass bead filled 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,30% Filler by Weight		
Features		Good Surface Finish		
		Low Warpage		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Furniture		
		Housings		
Appearance		Black		
Resin ID (ISO 1043)		PA6 GB30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	1.1	--	%	
Water Absorption (Saturation, 23°C)	6.5	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness				ISO 2039-1
H 358/30	--	90.0	MPa	
H 961/30	180	--	MPa	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4500	2000	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	40.0	MPa	ISO 527-2/5
Tensile Strain (Break)	> 3.5	> 25	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	40	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	185	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	205	--	°C	ISO 306/B50
Melting Temperature ¹	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	10 K/min, DSC			
2.	> 1 mm			

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