

AKROMID® B3 GF 60 4 RM-M black (5238)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 60 4 RM-M black (5238) is a 60% glass fibre reinforced, chemical stabilised polyamide 6 with low humidity absorption and very good surface finish.
Applications are housings and other dimensional stable parts in the automotive and electronic industry demanding high resistance against CaCl₂-solvents, as well as a very good surface.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 60% filler by weight		
Features		Good dimensional stability		
		Good chemical resistance		
		Low or no water absorption		
		Excellent appearance		
Uses		Electrical/Electronic Applications		
		Application in Automobile Field		
		Shell		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + X GF60		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.74	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.60	--	%	ISO 294-4
Flow	0.35	--	%	ISO 294-4
Humidity Absorption - 62% RH (70°C)	1.1	--	%	ISO 1110
Reinforcement Content	60	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22500	17000	MPa	ISO 527-2/1
Tensile Stress (Break)	225	175	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	2.7	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	18	--	kJ/m ²	ISO 179/1eA
23°C	22	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	ISO 179/1eU

23°C	60	65	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, not annealed	205	--	°C	ISO 75-2/A
8.0 MPa, not annealed	165	--	°C	ISO 75-2/C
Melting Temperature ¹	225	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)				
	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB	--		UL 94
NOTE				
1.	10°C/min			
2.	> 1 mm			

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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

