

AKROMID® B3 GF 50 4 RM-M black (3221)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 4 RM-M black (3221) is a 50% 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,50% Filler by Weight		
Additive		Unspecified Stabilizer		
Features		Good Chemical Resistance		
		Good Dimensional Stability		
		Good Surface Finish		
		Low Moisture Absorption		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Housings		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + X GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.60	--	g/cm ³	ISO 1183
Spiral Flow	50.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Reinforcement Content	50	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	280	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	13000	MPa	ISO 527-2/1
Tensile Stress (Break)	210	160	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	2.7	%	ISO 527-2/5
Flexural Modulus ¹	16800	--	MPa	ISO 178
Flexural Stress ²	320	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	20	kJ/m ²	
23°C	20	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m ²	
23°C	65	65	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Melting Temperature ³	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 ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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