

AKROMID® B3 GF 15 4 RM-M black (3440)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 15 4 RM-M black (3440) is a 15% 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,15% 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 GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.28	--	g/cm ³	ISO 1183
Spiral Flow	82.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Reinforcement Content	15	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	180	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6300	4300	MPa	ISO 527-2/1
Tensile Stress (Break)	130	87.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.5	%	ISO 527-2/5
Flexural Modulus ¹	4800	--	MPa	ISO 178
Flexural Stress ²	190	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	7.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	
23°C	42	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	--	°C	ISO 75-2/A
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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