

AKROMID® B3 GF 15 1 L black (4670)

Polyamide 6 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 15 1 L black (4670) is a 15% glass fibre reinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6 GF 15
Applications are mainly technical components in the automotive and electronic industry, where a weight and cost reduction is required

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		Low Density		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + PP GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	15.0	--	cm ³ /10min	ISO 1133
Spiral Flow	100	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Reinforcement Content	15	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5200	3700	MPa	ISO 527-2/1
Tensile Stress (Break)	105	65.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.3	5.3	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	6.0	kJ/m ²	
23°C	10	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m ²	

23°C	60	54	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	192	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (0.800 mm)	700	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	725	--	°C	IEC 60695-2-13
NOTE				
1.	10 K/min, DSC			
2.	> 1 mm			

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