

AKROMID® B3 GF 25 1 L black (4637)

Polyamide 6 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 25 1 L black (4637) is a 25% glass fibre reinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6 GF 25
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 reinforced material, 25% filler by weight		
Additive		heat stabilizer		
Features		Low density		
		Thermal Stability		
Uses		Electrical/Electronic Applications		
		Application in Automobile Field		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + PP GF25		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.22	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	10.0	--	cm ³ /10min	ISO 1133
Spiral Flow	86.0	--	cm	Internal method
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.80	--	%	ISO 294-4
Flow direction	0.30	--	%	ISO 294-4
Humidity Absorption - 62% RH (70°C)	1.5	--	%	ISO 1110
Reinforcement Content	25	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	5600	MPa	ISO 527-2/1
Tensile Stress (Break)	135	88.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.3	4.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	10	kJ/m ²	ISO 179/1eA
23°C	15	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	67	54	kJ/m ²	ISO 179/1eU

23°C	68	58	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	217	--	°C	ISO 75-2/B
1.8 MPa, not annealed	198	--	°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)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	775	--	°C	IEC 60695-2-13
NOTE				
1.	10 K/min, DSC			
2.	>1 mm			

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