

AKROMID® A3 GF 30 1 L black (4436)

Polyamide 66 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 1 L black (4436) is a 30% glass fibre reinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6.6 GF 30
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,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		Low Density		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PP GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	10.0	--	cm ³ /10min	ISO 1133
Spiral Flow	101	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.70	--	%	
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	6700	MPa	ISO 527-2/1
Tensile Stress (Break)	150	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.4	%	ISO 527-2/5
Flexural Modulus ¹	8200	--	MPa	ISO 178
Flexural Stress ²	220	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	--	kJ/m ²	
23°C	15	16	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	73	--	kJ/m ²	
23°C	77	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	246	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Melting Temperature ³	262	--	°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
Glow Wire Flammability Index (0.800 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	675	--	°C	IEC 60695-2-13
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	>1 mm			

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