

AKROMID® A3 GF 40 1 L black (4671)

Polyamide 66 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 40 1 L black (4671) is a 40% glass fibre reinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA66 GF 40
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,40% 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 GF40		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	4.00	--	cm ³ /10min	ISO 1133
Spiral Flow	91.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	1.0	--	%	ISO 1110
Reinforcement Content	40	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11800	8600	MPa	ISO 527-2/1
Tensile Stress (Break)	170	130	MPa	ISO 527-2/5
Tensile Strain (Break)	2.9	3.8	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	17	16	kJ/m ²	
23°C	17	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	73	68	kJ/m ²	

23°C	80	73	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
Melting Temperature ¹	262	--	°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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