

AKROMID® B3 GF 30 1 L black (4491)

Polyamide 6 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 1 L black (4491) is a 30% glass fibre reinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6 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)		PA6 + 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)	11.0	--	cm ³ /10min	ISO 1133
Spiral Flow	71.5	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.4	--	%	ISO 1110
Flexural Strain at Break ¹	3.4	--	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	170	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	6800	MPa	ISO 527-2/1
Tensile Stress (Break)	140	105	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.5	%	ISO 527-2/5
Flexural Modulus ²	8000	--	MPa	ISO 178
Flexural Stress ³	200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	13	kJ/m ²	
23°C	15	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	56	55	kJ/m ²	
23°C	70	67	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature ⁴	220	--	°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 ⁵ (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 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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