

AKROMID® B3 GF 50 S1 black 950089 (2000)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 S1 black 950089 (2000) is a 50% glass fibre reinforced, cold impact strength polyamide 6 with very high rigidity and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Rigidity		
		High Strength		
		Low Temperature Impact Resistance		
Uses		Engineered Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA6-I GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.54	--	g/cm ³	ISO 1183
Spiral Flow	34.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	1.3	--	%	ISO 1110
Reinforcement Content	50	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	7800	MPa	ISO 527-2/1
Tensile Stress (Break)	190	120	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	8.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	20	kJ/m ²	
23°C	25	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	> 100	--	kJ/m ²	
23°C	> 100	> 110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				
	210	--	°C	ISO 75-2/A

Melting Temperature ¹	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	10 K/min, DSC			
2.	>1 mm			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

