

AKROMID® B3 GF 50 black (4907)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 black (4907) is a 50% glass fibre reinforced 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		
Uses	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PA6 GF50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.56	g/cm ³	ISO 1183
Spiral Flow	46.0	cm	Internal Method
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.20	%	
Water Absorption (Saturation, 23°C)	4.5 to 5.1	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.3 to 1.6	%	ISO 1110
Reinforcement Content	50	%	ISO 1172
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2/1
Tensile Stress (Break)	240	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	16000	MPa	ISO 178
Flexural Stress ²	360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	90	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	°C	ISO 75-2/A
8.0 MPa, Unannealed	185	°C	ISO 75-2/C
Melting Temperature ³	220	°C	DIN EN 11357-1
CLTE			ISO 11359-2

Flow : 23 to 80°C	1.1E-5	cm/cm/°C	
Transverse : 23 to 80°C	9.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>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

