

AKROMID® B3 GF 50 natural (3785)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 natural (3785) is a 50% glass fibre reinforced polyamide 6 with very high rigidity and strength and light inherent color
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	Natural Color		
Resin ID (ISO 1043)	PA6 GF50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.56	g/cm ³	ISO 1183
Spiral Flow	57.0	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	16500	MPa	ISO 527-2/1
Tensile Stress (Break)	240	MPa	ISO 527-2/5
Tensile Strain (Break)	2.6	%	ISO 527-2/5
Flexural Modulus ¹	14900	MPa	ISO 178
Flexural Stress ²	340	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	16	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	90	kJ/m ²	
23°C	100	kJ/m ²	
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		

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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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