

AKROMID® B3 GF 30 S3 natural (2984)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 S3 natural (2984) is a 30% glass fibre reinforced, dry impact resistant polyamide 6 with high stiffness and strength and light inherent color

Applications are housings and covers for the automotive industry and power tools

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Stiffness		
		High Strength		
Uses		Automotive Applications		
		Housings		
		Power/Other Tools		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.33	--	g/cm ³	ISO 1183
Spiral Flow	52.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.80	--	%	
Humidity Absorption - 62% RH (70°C)				
	1.4	--	%	ISO 1110
Flexural Strain at Break ¹	5.5	--	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	160	110	MPa	ISO 527-2/5
Tensile Strain (Break)	5.5	12	%	ISO 527-2/5
Flexural Modulus ²	8000	--	MPa	ISO 178
Flexural Stress ³	250	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	16	kJ/m ²	
23°C	25	50	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	> 100	> 100	kJ/m ²	
23°C	> 100	> 110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature ⁴	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
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

