

AKROMID® B3 GF 30 S1 natural (2165)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 S1 natural (2165) is a 30% glass fibre reinforced, cold impact strength 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		
		Low Temperature Impact Resistance		
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
Humidity Absorption - 62% RH (70°C)	1.8	--	%	ISO 1110
Flexural Strain at Break ¹	5.0	5.5	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5000	MPa	ISO 527-2/1
Tensile Stress (Break)	160	105	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	12	%	ISO 527-2/5
Flexural Modulus ²	8500	5500	MPa	ISO 178
Flexural Stress ³	265	250	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	17	kJ/m ²	
23°C	25	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	> 100	> 100	kJ/m ²	
23°C	> 100	--	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			

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

