

AKROMID® B3 GF 50 S1 natural (3694)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 S1 natural (3694) is a 50% glass fibre reinforced, cold impact strength 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		
		Low Temperature Impact Resistance		
Uses		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6-I GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.54	--	g/cm ³	ISO 1183
Humidity Absorption - 62% RH (70°C)	1.3	--	%	ISO 1110
Reinforcement Content	50	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	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	--	kJ/m ²	
23°C	30	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	> 100	--	kJ/m ²	
23°C	> 110	> 110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	225	--	°C	ISO 75-2/B
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			

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