

AKROMID® B3 GF 45 1 natural (3983)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 45 1 natural (3983) is a 40% glass fibre reinforced polyamide 6 with 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,40% Filler by Weight		
Features	High Rigidity		
	High Strength		
Uses	Engineered Applications		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA6 GF45		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2/1
Tensile Stress (Break)	200	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/5
Flexural Modulus ¹	10000	MPa	ISO 178
Flexural Stress ²	300	MPa	ISO 178
Flexural Strain at Break ³	5.0	%	ISO 178
Reinforcement Content	45	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	18	kJ/m ²	
23°C	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m ²	
23°C	120	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	200	°C	ISO 75-2/A
8.0 MPa, Unannealed	145	°C	ISO 75-2/C

Melting Temperature ⁴	220	°C	DIN EN 11357-1
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10 K/min, DSC		

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