

AKROMID® B3 GF 45 1 black (3851)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 45 1 black (3851) is a 45% glass fibre reinforced, heat stabilised polyamide 6 with very high rigidity and strength
Applications are mainly components in mechanical engineering and in the automotive industry and highly stressed parts in the sports and leisure industry

General Information				
UL YellowCard		E148915-101075626		
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Rigidity		
		High Strength		
Uses		Automotive Applications		
		Engineering Parts		
		Machine/Mechanical Parts		
		Sporting Goods		
Appearance		Black		
Resin ID (ISO 1043)		PA6 GF45		
Physical	Dry	Conditioned	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	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	8500	MPa	ISO 527-2/1
Tensile Stress (Break)	200	140	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	8.5	%	ISO 527-2/5
Flexural Modulus ¹	13000	7500	MPa	ISO 178
Flexural Stress ²	315	200	MPa	ISO 178
Flexural Strain at Break ³	4.5	6.7	%	ISO 178
Reinforcement Content	45	--	%	ISO 1172
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	15	kJ/m ²	
23°C	20	25	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	110	kJ/m ²	
23°C	110	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	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
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	2 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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