

AKROMID® B3 GF 30 S1 black (1281)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 S1 black (1281) is a 30% glass fibre reinforced, cold impact modified polyamide 6 with high rigidity and strength
Applications are housings and covers for the automotive industry and power tools

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Impact Modifier		
Features		High Rigidity		
		High Strength		
		Impact Modified		
		Low Temperature Impact Resistance		
Uses		Automotive Applications		
		Housings		
		Power/Other Tools		
Appearance		Black		
Resin ID (ISO 1043)		PA6-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	150	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	6.0	%	ISO 527-2/5
Flexural Modulus ¹	8300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	15	20	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
85		100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	190	--	°C	ISO 75-2/A
Melting Temperature ²	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94

NOTE

1. 2.0 mm/min
2. 10 K/min, DSC
3. >1 mm

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