

AKROMID® B3 GF 30 S1 black 950089 (2091)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 S1 black 950089 (2091) is a 30% glass fibre reinforced, cold impact strength polyamide 6 with high stiffness and strength
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		Black		
Resin ID (ISO 1043)		PA6-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.28	--	g/cm ³	ISO 1183
Spiral Flow	53.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	1.4	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	4200	MPa	ISO 527-2/1
Tensile Stress (Break)	125	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	13	%	ISO 527-2/5
Flexural Modulus ¹	6400	--	MPa	ISO 178
Flexural Stress ²	190	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	22	--	kJ/m ²	
-30°C	25	22	kJ/m ²	
-20°C	25	--	kJ/m ²	
-10°C	26	--	kJ/m ²	

23°C	35	45	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	120	--	kJ/m ²	
-30°C	> 100	> 100	kJ/m ²	
-20°C	120	--	kJ/m ²	
-10°C	110	--	kJ/m ²	
23°C	110	140	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Melting Temperature ³	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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