

AKROMID® B3 ICF 30 black (5119)

Polyamide 6

AKRO-PLASTIC GmbH

Message:

AKROMID® B3 ICF 30 black (5119) is a 30% carbon fibre reinforced polyamide 6 with high flexural strength and good sliding properties

Applications are mechanically high stressed parts in all industries

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Features		Good Strength		
		High Strength		
Appearance		Black		
Resin ID (ISO 1043)		PA6 CF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Flexural Strain at Break ¹	2.0	3.5	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	23000	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	200	125	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2/5
Flexural Modulus ²	18000	11300	MPa	ISO 178
Flexural Stress ³	290	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	
23°C	10	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	52	--	kJ/m ²	
23°C	55	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	--	°C	ISO 75-2/A

Melting Temperature ⁴	220	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+3	1.0E+3	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94

NOTE

1. 2 mm/min
2. 2.0 mm/min
3. 2.0 mm/min
4. 10 K/min, DSC
5. > 1 mm

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