

# AKROMID® B3 ICF 20 1 L black (5296)

Polyamide 6 + PP  
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 ICF 20 1 L black (5296) is a 20% carbon fibre reinforced, heat stabilised polyamide 6 with high flexural strength, good sliding properties and a reduced density compared to standard PA6 ICF 20  
Applications are mechanically high stressed parts in all industries

General Information				
Filler / Reinforcement		Carbon Fiber,20% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Strength		
		Low Density		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + PP CF20		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.15	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14200	9700	MPa	ISO 527-2/1
Tensile Stress (Break)	140	120	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	4.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	--	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	--	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Melting Temperature <sup>1</sup>	222	--	°C	DIN EN 11357-1
NOTE				

1. 10 K/min, DSC

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