

AKROLOY® PA ICF 30 black (5269)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA ICF 30 black (5269) is a 30% carbon fibre reinforced polyamide blend with high stiffness, good sliding properties and reduced moisture. Application areas are mechanically high stressed parts with dimensional stability and moisture independent properties

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Features		Good Dimensional Stability		
		High Stiffness		
		Low Moisture Absorption		
		Moisture Resistant		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PA6I/6T CF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.29	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.20	--	%	
Humidity Absorption - 62% RH (70°C)	1.6	--	%	ISO 1110
Flexural Strain at Break ¹	2.0	2.0	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	25000	23000	MPa	ISO 527-2/1
Tensile Stress (Break)	220	200	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	1.6	%	ISO 527-2/5
Flexural Modulus ²	21000	21500	MPa	ISO 178
Flexural Stress ³	320	300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m ²	
23°C	50	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	230	--	°C	ISO 75-2/A
Melting Temperature ⁴	255	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+4	1.0E+4	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 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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