

AKROMID® A3 ICF 15 black (5056)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 ICF 15 black (5056) is a 15% carbon fibre reinforced polyamide 6.6 with high flexural strength and good sliding properties
Applications are mechanically high stressed parts in all industries

General Information				
Filler / Reinforcement		Carbon Fiber, 15% Filler by Weight		
Features		High Strength		
Appearance		Black		
Resin ID (ISO 1043)		PA66 CF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.20	--	g/cm ³	ISO 1183
Spiral Flow	50.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	7400	MPa	ISO 527-2/1
Tensile Stress (Break)	170	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2/5
Flexural Modulus ¹	10400	7000	MPa	ISO 178
Flexural Stress ²	250	170	MPa	ISO 178
Flexural Strain at Break ³	3.0	5.0	%	ISO 178
Reinforcement Content	15	--	%	ISO 1172
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	5.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	--	kJ/m ²	
23°C	45	65	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				
	245	--	°C	ISO 75-2/A
Melting Temperature ⁴				
	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+5	1.0E+5	ohms	IEC 60093

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	2 mm/min			
4.	10 K/min, DSC			

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