

AKROLOY® PA ICF 20 black (5268)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA ICF 20 black (5268) is a 20% 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,20% Filler by Weight		
Features		Good Dimensional Stability		
		High Stiffness		
		Low Moisture Absorption		
		Moisture Resistant		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PA6I/6T CF20		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.23	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	--	cm ³ /10min	ISO 1133
Spiral Flow	44.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	--	MPa	ISO 527-2/1
Tensile Stress (Break)	200	--	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	--	%	ISO 527-2/5
Flexural Modulus ¹	13000	--	MPa	ISO 178
Flexural Stress ²	250	--	MPa	ISO 178
Flexural Strain at Break ³	2.6	--	%	ISO 178
Reinforcement Content	20	--	%	ISO 1172
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	6.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	--	kJ/m ²	
23°C	45	--	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	223	--	°C	ISO 75-2/A
Melting Temperature ⁴	255	--	°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
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	2 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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