

AKROMID® T1 ICF 30 black (5148)

Polyphthalamide

AKRO-PLASTIC GmbH

Message:

AKROMID® T1 ICF 30 black (5148) is a 30% carbon fibre reinforced polyphthalamide with good 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)		PPA CF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Humidity Absorption - 62% RH (70°C)	1.1	--	%	ISO 1110
Flexural Strain at Break ¹	1.5	1.6	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	27000	27000	MPa	ISO 527-2/1
Tensile Stress (Break)	240	240	MPa	ISO 527-2/5
Tensile Strain (Break)	1.2	1.2	%	ISO 527-2/5
Flexural Modulus ²	25000	24500	MPa	ISO 178
Flexural Stress ³	340	340	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	5.0	5.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	33	--	kJ/m ²	
23°C	35	38	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	258	--	°C	ISO 75-2/A

Melting Temperature ⁴	313	--	°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
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			

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