

AKROMID® C3 ICF 30 5 XTC black (5473)

Polyamide 66/6 Copolymer

AKRO-PLASTIC GmbH

Message:

AKROMID® C3 ICF 30 5 XTC black (5473) is a 30% carbon fibre reinforced, high heat stabilised polyamid 66/6 blend with high flexural strength, good sliding properties and extra high temperature tolerance.
Applications are mechanically high stressed parts in all industries

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Heat Resistance		
		High Strength		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PA6 GF 30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.28	--	g/cm ³	ISO 1183
Humidity Absorption - 62% RH (70°C)	2.3	--	%	ISO 1110
Flexural Strain at Break ¹	2.0	3.8	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	25000	10200	MPa	ISO 527-2/1
Tensile Stress (Break)	210	120	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	3.8	%	ISO 527-2/5
Flexural Modulus ²	21500	10700	MPa	ISO 178
Flexural Stress ³	320	200	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	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m ²	
23°C	45	54	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁴	260	--	°C	DIN EN 11357-1
NOTE				
1.	2 mm/min			

2.	2.0 mm/min
3.	2.0 mm/min
4.	10 K/min, DSC

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