

AKROMID® A3 CF 20 black (3132)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 CF 20 black (3132) is a 20% carbon fibre reinforced polyamide 6.6 with high flexural strength and good sliding properties
Applications are mechanically strongly loaded components in all industry sectors

General Information				
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight			
Features	High Strength			
Uses	Industrial Applications			
Appearance	Black			
Resin ID (ISO 1043)	PA66 CF20			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Flexural Strain at Break ¹	2.5	3.7	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	10500	MPa	ISO 527-2/1
Tensile Stress (Break)	200	150	MPa	ISO 527-2/5
Tensile Strain (Break)	> 1.5	3.0	%	ISO 527-2/5
Flexural Modulus ²	14000	10000	MPa	ISO 178
Flexural Stress ³	290	210	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	> 40	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	254	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	223	--	°C	ISO 75-2/C
Melting Temperature ⁴	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	3.7E+3	--	ohms	IEC 60093
Volume Resistivity	4.9E+6	--	ohms · cm	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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