

AKROMID® B3 CGM 6/20 black (4362)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 CGM 6/20 black (4362) is a 6% carbon fibre reinforced, 20% glass fibre reinforced polyamide 6 with high stiffness and strength and electrical conductivity
Applications are mainly components in mechanical engineering and in the automotive industry, in which a conductivity of the material is required

General Information			
Filler / Reinforcement	Carbon Fiber,6.0% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Features	Conductive		
	Electrically Conductive		
	High Stiffness		
	High Strength		
Uses	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PA6 CF6 + GF20		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	175	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	60	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	220	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	IEC 60093
Volume Resistivity	1.0E+3 to 1.0E+6	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
NOTE			
1.	10 K/min, DSC		
2.	>1 mm		

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