

AKROMID® B3 GM 10/20 1 natural (1828)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GM 10/20 1 natural (1828) is a 10% glass fibre reinforced, 20% glass bead filled, heat stabilised polyamide 6 with good surface, low warpage and light inherent color
Application areas are housings, handles and switches in the automotive industry

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Surface Finish		
	Heat Stabilized		
	Low Warpage		
Uses	Automotive Applications		
	Handles		
	Housings		
	Switches		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA6 GF10 + GB20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.35	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.50	%	
Water Absorption (Saturation, 23°C)	7.3	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.0	%	ISO 1110
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6700	MPa	ISO 527-2/1
Tensile Stress (Break)	115	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	217	°C	ISO 75-2/B

1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Melting Temperature ³	222	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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