

AKROMID® B3 GFM 10/20 natural (3692)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GFM 10/20 natural (3692) is a 10% glass fibre reinforced, 20% mineral filled polyamide 6 with good surface, dimensional stability and light inherent color
Applications areas are optical engine covers in the automotive industry

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Dimensional Stability		
	Good Surface Finish		
Uses	Automotive Applications		
	Automotive Under the Hood		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA6 GF10 + M20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.33	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.40	%	
Water Absorption (Saturation, 23°C)	7.3	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.8	%	ISO 1110
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	6000	MPa	ISO 178
Flexural Stress ²	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	211	°C	ISO 75-2/B
1.8 MPa, Unannealed	173	°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)	400	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
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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