

AKROMID® B3 GM 10/20 natural (3691)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GM 10/20 natural (3691) is a 10% glass fibre reinforced, 20% glass bead filled 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 Bead,20% Filler by Weight Glass Fiber,10% Filler by Weight		
Features		Good Surface Finish Low Warpage		
Uses		Automotive Applications Handles Housings Switches		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6 GF10 + GB20		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	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	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	3200	MPa	ISO 527-2/1
Tensile Stress (Break)	105	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	15	%	ISO 527-2/5
Flexural Modulus ¹	6000	--	MPa	ISO 178
Flexural Stress ²	175	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	90	kJ/m ²	ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°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	Dry	Conditioned	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)	425	--	V	IEC 60112
Flammability	Dry	Conditioned	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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