

AKROMID® B3 GFM 15/25 natural (3578)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GFM 15/25 natural (3578) is a 15% glass fibre reinforced, 25% mineral filled polyamide 6 with good surface and dimensional stability and light inherent color
Application areas are optical demanding covers in the automotive, electric and furniture industry

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Good Dimensional Stability		
	Good Surface Finish		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Furniture		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA6 GF15 + M25		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.46	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Water Absorption (Saturation, 23°C)	6.5	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.8	%	ISO 1110
Temperature Index			IEC 216
50% Loss of Tensile Strength, 20000 hr	130 to 150	°C	
50% Loss of Tensile Strength, 5000 hr	160 to 175	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	7000	MPa	ISO 178
Flexural Stress ²	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m²	
23°C	4.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m²	

23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	216	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Melting Temperature ³	222	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+12	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 (2.00 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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