AKROMID® B3 GFM 15/25 black (1312)

Polyamide 6

AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GFM 15/25 black (1312) is a 15% glass fibre reinforced, 25% mineral filled polyamide 6 with good surface and dimensional stability
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	Black		
Resin ID (ISO 1043)	PA6 GF15 + M25		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.45	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	
Reinforcement Content	40	%	ISO 1172
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 (23°C)	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
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		

Recommended distributors for this material

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