

AKROMID® A3 GK 40 1 natural (1803)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GK 40 1 natural (1803) is a 40% glass bead reinforced, heat stabilised polyamide 6.6 with low warpage, high surface appearance and light inherent color
Applications areas are highly integrated housings in the appliance industry

General Information			
Filler / Reinforcement	Glass Bead,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Surface Finish		
	Heat Stabilized		
	Low Warpage		
Uses	Appliances		
	Housings		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA66 GB40		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.3	%	
Water Absorption (Saturation, 23°C)	5.1	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.8	%	ISO 1110
Reinforcement Content	40	%	ISO 1172
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	%	ISO 527-2/5
Flexural Modulus ¹	5800	MPa	ISO 178
Flexural Stress ²	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	230	°C	ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ISO 75-2/A

Melting Temperature ³	262	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	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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