

AKROMID® A3 GK 30 natural (3689)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GK 30 natural (3689) is a 30% glass bead filled polyamide 6.6 with low warpage and high surface appearance and light inherent color
Application areas are highly integrated housings in the appliance industry

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Features	Good Surface Finish		
	Low Warpage		
Uses	Appliances		
	Housings		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA66 GB30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.35	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	1.2	%	
Water Absorption (Saturation, 23°C)	5.8	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.0	%	ISO 1110
Flexural Strain at Break ¹	6.5	%	ISO 178
Reinforcement Content	30	%	ISO 1172
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ²	4300	MPa	ISO 178
Flexural Stress ³	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	22	kJ/m ²	
23°C	28	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
Melting Temperature ⁴	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 ⁵ (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 mm/min		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	10 K/min, DSC		
5.	>1 mm		

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