

AKROMID® A3 K1 FR black 950089 (2246)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 K1 FR black 950089 (2246) is a 25% glass fibre reinforced, halogen- free flame retardant polyamide 6.6, all color listed at UL and NF F 16-101
Applications are switch housings in the electric industry

General Information			
UL YellowCard	E148915-457230		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Uses	Electrical/Electronic Applications		
	Housings		
Appearance	Black		
Resin ID (ISO 1043)	PA66 GF25 FR		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.34	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9600	MPa	ISO 527-2/1
Tensile Stress (Break)	140	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
Flexural Modulus ¹	9500	MPa	ISO 178
Flexural Stress ²	225	MPa	ISO 178
Flexural Strain at Break ³	3.0	%	ISO 178
Burning and Smoke Gas Classification	I3/F2		NF F16-101
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m²	
23°C	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	> 50	kJ/m²	
23°C	> 50	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁴	262	°C	DIN EN 11357-1

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Flammability Index (0.800 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	750	°C	IEC 60695-2-13
Oxygen Index	34	%	ISO 4589-2
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10 K/min, DSC		

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