

AKROMID® A3 K1 FR natural (2312)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 K1 FR natural (2312) is a 25% glass fibre reinforced, halogenfree flame retardant polyamide 6.6 with light inherent color, 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		Natural Color		
Resin ID (ISO 1043)		PA66 GF25 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.30	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	221	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9200	6500	MPa	ISO 527-2/1
Tensile Stress (Break)	140	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	--	kJ/m ²	
23°C	65	70	kJ/m ²	
Notched Izod Impact Strength (23°C)	10	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	261	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	246	--	°C	ISO 75-2/A
Melting Temperature ¹	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (3.00 mm)	28	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70	--		IEC 60250
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	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 (2.00 mm)	775	--	°C	IEC 60695-2-13
Oxygen Index	32	--	%	ISO 4589-2
Burning and Smoke Gas Classification	I3/F1	--		NF F16-101
NOTE				

1. 10 K/min, DSC

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