

AKROMID® A3 1 FR natural (3028)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 FR natural (3028) is an unreinforced, heat stabilised, halogen- free flame retardant polyamide 6.6 with light inherent color, listet at UL in all colors.
Applications are switch parts and housings in the electric industry

General Information			
UL YellowCard	E148915-100062007		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Halogen Free		
	Heat Stabilized		
Uses	Electrical/Electronic Applications		
	Housings		
	Switches		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA66 FR		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.18	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 5.0	%	ISO 527-2/50
Flexural Modulus ¹	3300	MPa	ISO 178
Flexural Stress ²	125	MPa	ISO 178
Flexural Strain at Break ³	6.2	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m ²	
23°C	85	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Melting Temperature ⁴	260	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength (3.00 mm)	19	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	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	32	%	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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