

AKROMID® A3 1 FR black (3051)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 FR black (3051) is an unreinforced, heat stabilised, halogen- free flame retardant polyamide 6.6
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	Black		
Resin ID (ISO 1043)	PA66 FR		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.18	g/cm³	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)	83.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 5.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	45	kJ/m²	ISO 179/1eU
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 ¹	260	°C	DIN EN 11357-1
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

NOTE

1. 10 K/min, DSC

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

