

AKROMID® A3 S1 black 950089 (1071)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 S1 black 950089 (1071) is an unreinforced, cold impact modified polyamide 6.6
Applications are connectors and fixtures for the automotive electro and furniture industry, if high impact resistance at low temperatures is required.

General Information				
Features		Low Temperature Impact Resistance		
Uses		Automotive Applications		
		Automotive Electronics		
		Connectors		
		Furniture		
Appearance		Black		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.07	--	g/cm ³	ISO 1183
Spiral Flow	77.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	900	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	40.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.8	--	%	
Break	> 50	> 100	%	
Flexural Modulus ¹	1950	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	35	--	kJ/m ²	
-30°C	35	35	kJ/m ²	
23°C	> 80	> 100	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-40°C	No Break	--		
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	152	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature ²	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	10 K/min, DSC			
3.	> 1 mm			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT