

AKROMID® A3 1 S3 black (1139)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 S3 black (1139) is an unreinforced, heat stabilised and dry impact resistant polyamide 6.6
Applications are connecting and fixing systems, used at elevated temperatures in the automotive and electro industry

General Information				
Additive		Heat Stabilizer Impact Modifier		
Features		Heat Stabilized Impact Modified		
Uses		Automotive Applications Connectors Electrical/Electronic Applications Fasteners		
Appearance		Black		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.10	--	g/cm ³	ISO 1183
Spiral Flow	80.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.2	--	%	
Flow	2.1	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Flexural Strain at Break ¹	7.5	--	%	ISO 178
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 23°C)	75	--		DIN 53505
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	63.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 35	> 100	%	ISO 527-2/50
Flexural Modulus ²	2500	--	MPa	ISO 178
Flexural Stress ³	90.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	13	kJ/m ²	
23°C	17	25	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°C	12	--	kJ/m ²	
-20°C	12	--	kJ/m ²	
23°C	15	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	213	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	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 ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	>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