

AKROMID® A3 1 S1 black (3616)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 S1 black (3616) is a unreinforced, heat stabilised, cold impact strength polyamide 6.6.
Applications are connecting and fixing systems in the automotive and elctro industry

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
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
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.2	--	%	
Humidity Absorption - 62% RH (70°C)	2.3	--	%	ISO 1110
Flexural Strain at Break ¹	7.0	--	%	ISO 178
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	111	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	2000	MPa	ISO 527-2/1
Tensile Stress (Yield)	77.0	56.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	5.0	21	%	
Break	> 20	> 50	%	
Flexural Modulus ²	2600	--	MPa	ISO 178
Flexural Stress ³	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	
23°C	8.0	--	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU	
-30°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°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
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
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			

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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

