

AKROMID® A3 S3 black (1043)

Polyamide 66
AKRO-PLASTIC GmbH

Message:
AKROMID® A3 S3 black (1043) is an unreinforced and dry impact resistant polyamide 6.6
Applications are connecting and fixing systems in the automotive and elctro industry

General Information				
Features		Good Impact Resistance		
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	1.5	--	%	
Flow	1.2	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	93.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	67.0	47.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	> 100	%	ISO 527-2/50
Flexural Modulus ¹	2850	1600	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	15	25	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
No Break	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	213	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	67.0	--	°C	ISO 75-2/A
Melting Temperature ²	263	--	°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			

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