

AKROMID® A3 S1 black 9500 (1114)

Polyamide 66
AKRO-PLASTIC GmbH

Message:
AKROMID® A3 S1 black 9500 (1114) is an unreinforced, cold impact modified polyamide 6.6.
Applications are connecting and fixing systems in the automotive and elctro industry

General Information				
Features		Low Temperature 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)	1.12	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.1	--	%	
Flow	1.4	--	%	
Humidity Absorption - 62% RH (70°C)	2.3	--	%	ISO 1110
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 ¹	3350	--	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	No Break		
23°C	No Break	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 ²	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
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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