

AKROMID® B3 1 black (2501)

Polyamide 6
AKRO-PLASTIC GmbH

Message:
AKROMID® B3 1 black (2501) is an unreinforced, heat stabilised polyamide 6
Applications are engineering parts like fasteners, clips, plugs and caps.

General Information				
UL YellowCard		E148915-101092094		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Caps		
		Engineering Parts		
		Fasteners		
		Plugs		
Appearance		Black		
Resin ID (ISO 1043)		PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Spiral Flow	107	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.1	--	%	
Water Absorption (Saturation, 23°C)	9.0 to 10	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.6 to 3.4	--	%	ISO 1110
Temperature Index				IEC 216
50% Loss of Tensile Strength, 20000 hr	90 to 120	--	°C	
50% Loss of Tensile Strength, 5000 hr	100 to 140	--	°C	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3600	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	20	> 50	%	ISO 527-2/50
Flexural Modulus ¹	3100	--	MPa	ISO 178
Flexural Stress ²	120	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	2.0	--	kJ/m ²	
23°C	5.0	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ³	220	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.60 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	675	--	°C	IEC 60695-2-13
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	>1 mm			

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