

AKROMID® B3 natural (2500)

Polyamide 6
AKRO-PLASTIC GmbH

Message:
AKROMID® B3 natural (2500) is an unreinforced polyamide 6 with light inherent color
Applications are engineering parts like fasteners, clips, plugs and caps.

General Information				
Uses	Caps			
	Engineering Parts			
	Fasteners			
	Plugs			
Appearance	Natural Color			
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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