

AKROMID® B3 2 S3 natural (4018)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 2 S3 natural (4018) is an unreinforced, UV-stabilised, dry impact resistant polyamide 6 with light inherent color
Applications are engineering parts like fasteners, clips, plugs and caps.

General Information				
Additive	UV Stabilizer			
Features	Good Impact Resistance			
Uses	Caps			
	Engineering Parts			
	Fasteners			
	Plugs			
Appearance	Natural Color			
Resin ID (ISO 1043)	PA6-I			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.8	--	%	
Flow	1.4	--	%	
Humidity Absorption - 62% RH (70°C)	2.3	--	%	ISO 1110
Flexural Strain at Break ¹	7.0	--	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	800	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	35.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.0	22	%	
Break	> 50	> 100	%	
Flexural Modulus ²	1700	--	MPa	ISO 178
Flexural Stress ³	80.0	--	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	20	110	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	145	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned		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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