

AKROMID® B3 S1 black (3726)

Polyamide 6
AKRO-PLASTIC GmbH

Message:
AKROMID® B3 S1 black (3726) is an unreinforced, cold impact strength polyamide 6
Applications are mountings and dowels in the furniture and construction industry

General Information				
Features		Low Temperature Impact Resistance		
Uses		Furniture Industrial Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA6-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.07	--	g/cm ³	ISO 1183
Spiral Flow	60.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.5	--	%	
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Flexural Strain at Break ¹	7.5	--	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	550	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	45.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	30	%	
Break	> 50	> 100	%	
Flexural Modulus ²	1500	--	MPa	ISO 178
Flexural Stress ³	65.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	55	40	kJ/m ²	
23°C	45	110	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 (1.8 MPa, Unannealed)	48.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
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
5. > 1 mm

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