

AKROMID® B3 LA black (4056)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 LA black (4056) is a unreinforced, laser markable polyamide 6
Applications are handles, housings and covering parts for the automotive industry and power tools.

General Information				
Uses	Automotive Applications			
	Handles			
	Housings			
	Power/Other Tools			
Appearance	Black			
Resin ID (ISO 1043)	PA6			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.1	--	%	
Humidity Absorption - 62% RH (70°C)	2.5	--	%	ISO 1110
Flexural Strain at Break ¹	6.5	--	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3400	1000	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 ²	3000	--	MPa	ISO 178
Flexural Stress ³	115	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	3.0	20	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	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	220	--	°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)	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 mm/min
2. 2.0 mm/min
3. 2.0 mm/min
4. 10 K/min, DSC
5. > 1 mm

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