

AKROMID® B3 3 S3 10 black 950063 (1809)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 3 S3 10 black 950063 (1809) is an unreinforced, nucleated, dry impact resistant polyamide 6 with light inherent color. Applications are handles and fittings for power tools and furniture industry.

General Information				
Additive	Nucleating Agent			
Features	Good Impact Resistance			
	Nucleated			
Uses	Fittings			
	Furniture			
	Handles			
	Power/Other Tools			
Appearance	Black			
Resin ID (ISO 1043)	PA6-I			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.10	--	g/cm ³	ISO 1183
Spiral Flow	85.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	1.3	--	%	
Humidity Absorption - 62% RH (70°C)	2.6	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	102	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	955	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	40.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.3	15	%	
Break	> 45	> 100	%	
Flexural Modulus ¹	2600	950	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	10	kJ/m ²	

23°C	10	28	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				
0.45 MPa, Unannealed	162	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ²	222	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	10 K/min, DSC			
3.	>1 mm			

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