

AKROMID® B3 3 S3 10 natural (1808)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 3 S3 10 natural (1808) is a nonreinforced, 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		Natural Color		
Resin ID (ISO 1043)		PA6-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.10	--	g/cm ³	ISO 1183
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 (23°C)	10	28	kJ/m ²	ISO 179/1eA
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	162	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	61.0	--	°C	ISO 75-2/A
Melting Temperature ²	224	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	10 K/min, DSC			

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