

AKROMID® B3 M 40 natural (2795)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 M 40 natural (2795) is a 40 % mineral filled polyamide 6 with very good surface and low warpage.
Characteristic applications are chrome-plated handles, housings and switches in the automotive as well as covers in the sanitary industry.

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Features		Good Surface Finish		
		Low Warpage		
Uses		Automotive Applications		
		Handles		
		Housings		
		Sanitary Products		
		Switches		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6 M40		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.45	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.90	--	%	
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Flexural Strain at Break ¹	6.1	--	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5500	1700	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	45.0	MPa	ISO 527-2/5
Tensile Strain (Break)	7.0	25	%	ISO 527-2/5
Flexural Modulus ²	5000	--	MPa	ISO 178
Flexural Stress ³	130	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	5.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	120	--	kJ/m ²	
23°C	110 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°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)	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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