

AKROMID® B28 GM 10/20 1 LA black (4790)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B28 GM 10/20 1 LA black (4790) is a 10% glass fibre reinforced, 20% glass bead filled, heat stabilised, laser markable, easy flowing polyamide 6 with good surface and slight tendency to warp.
Application areas are housings, handles and switches in the automotive- and electrical industry

General Information				
Filler / Reinforcement		Glass Fiber,10% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Flow		
		Good Surface Finish		
		Heat Stabilized		
		Laser Markable		
		Low Warpage		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Handles		
		Housings		
		Switches		
Appearance		Black		
Resin ID (ISO 1043)		PA6 GF10 + GB20		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Spiral Flow	90.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	2.2	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5700	3000	MPa	ISO 527-2/1
Tensile Stress (Break)	110	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.6	10	%	ISO 527-2/5
Flexural Modulus ¹	5000	--	MPa	ISO 178
Flexural Stress ²	170	--	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	4.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	--	kJ/m ²	
23°C	30	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Melting Temperature ³	222	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+5	--	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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