

AKROMID® A3 GM 20/10 S1 natural (1217)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GM 20/10 S1 natural (1217) is an 20% glass fibre reinforced, 10% glass bead filled, cold impact strength polyamide 6.6 with good surface, low warpage and light inherent color
Applications are technical devices in automotive and engineering industry capable of carrying high load.

General Information				
Filler / Reinforcement		Glass Bead,10% Filler by Weight Glass Fiber,20% Filler by Weight		
Features		Good Strength Good Surface Finish Low Temperature Impact Resistance Low Warpage		
Uses		Automotive Applications Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66-I GF20 + GB10		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.50	--	%	
Water Absorption (Saturation, 23°C)	5.1	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	127	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6900	4200	MPa	ISO 527-2/1
Tensile Stress (Break)	130	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	10	%	ISO 527-2/5
Flexural Modulus ¹	6900	--	MPa	ISO 178
Flexural Stress ²	205	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	--	kJ/m ²	
23°C	15	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	76	--	kJ/m ²	
23°C	80	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°C	DIN EN 11357-1
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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