

AKROMID® A3 GF 13 S1 natural (2167)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 13 S1 natural (2167) is a 13% glass fibre reinforced, cold impact strength polyamide 6.6 with average stiffness and strength and light inherent color.
Applications are components and housings mainly in mechanical engineering and in the automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	Good Stiffness		
	Low Temperature Impact Resistance		
	Medium Strength		
Uses	Automotive Applications		
	Engineering Parts		
	Housings		
Appearance	Natural Color		
Resin ID (ISO 1043)	PA66-I GF13		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	70	kJ/m ²	
23°C	80	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	°C	ISO 75-2/A
Melting Temperature ¹	260	°C	DIN EN 11357-1
Flammability	Nominal Value	Unit	Test Method

Burning Rate ² (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	13	%	ISO 1172
NOTE			
1.	10 K/min, DSC		
2.	>1 mm		

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