

AKROMID® B3 GFM 10/20 1 grey (4561)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GFM 10/20 1 grey (4561) is a 10% glass fibre reinforced and 20% mineral filled, heat stabilised Polyamid 6 with good surface and dimensional stability
Applications are optical attractive engine covers in the automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
	Mineral,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability		
	Good Surface Finish		
	Heat Stabilized		
Uses	Automotive Applications		
	Automotive Under the Hood		
Appearance	Grey		
Resin ID (ISO 1043)	PA6 GF10 + M20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.38	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	5500	MPa	ISO 178
Flexural Stress ²	165	MPa	ISO 178
Flexural Strain at Break ³	5.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.3	kJ/m ²	
23°C	3.7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	43	kJ/m ²	
23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	178	°C	ISO 75-2/A

8.0 MPa, Unannealed	55.0	°C	ISO 75-2/C
Melting Temperature ⁴	222	°C	DIN EN 11357-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10 K/min, DSC		
5.	>1 mm		

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