

AKROMID® A3 GF 35 3 black (1802)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 35 3 black (1802) is a 35% glass fibre reinforced, nucleated polyamide 6.6 with high stiffness and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	High Stiffness		
	High Strength		
Uses	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PA66 GF35		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.41	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1
Tensile Stress (Break)	180	MPa	ISO 527-2/5
Tensile Strain (Break)	2.3	%	ISO 527-2/5
Flexural Modulus ¹	8000	MPa	ISO 178
Flexural Stress ²	250	MPa	ISO 178
Flexural Strain at Break ³	3.7	%	ISO 178
Reinforcement Content	35	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	53	kJ/m ²	
23°C	> 50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	265	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature ⁴	262	°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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