

AKROMID® A3 GF 30 S1 black (3723)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 S1 black (3723) is a 30% glass fibre reinforced, cold impact strength 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,30% Filler by Weight		
Features	High Stiffness		
	High Strength		
	Low Temperature Impact Resistance		
Uses	Engineered Applications		
Appearance	Black		
	Natural Color		
Resin ID (ISO 1043)	PA66-I GF30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.35	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1
Tensile Stress (Break)	180	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	8000	MPa	ISO 178
Flexural Stress ²	255	MPa	ISO 178
Flexural Strain at Break ³	4.2	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m ²	
23°C	90	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	250	°C	ISO 75-2/A

8.0 MPa, Unannealed	210	°C	ISO 75-2/C
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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