

AKROMID® A3 GF 13 S3 black (3768)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 13 S3 black (3768) is a 13% glass fibre reinforced, dry impact resistant polyamide 6.6 with average stiffness and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information			
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	Good Impact Resistance		
	Good Stiffness		
	Medium Strength		
	Tack Free		
Uses	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PA66-I GF13		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2/1
Tensile Stress (Break)	125	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ¹	4800	MPa	ISO 178
Flexural Stress ²	180	MPa	ISO 178
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	55	kJ/m ²	
23°C	75	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	261	°C	ISO 75-2/B
1.8 MPa, Unannealed	244	°C	ISO 75-2/A
Melting Temperature ³	260	°C	DIN EN 11357-1

Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	13	%	ISO 1172
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		

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