

AKROMID® A3 GF 30 1 S3 black (3502)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 1 S3 black (3502) is a 30% glass fibre reinforced, heat stabilised, dry impact resistant polyamide 6.6 with high stiffness and strength Applications are connecting and fixing systems, used at elevated temperatures in the automotive and electric industry

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Impact Resistance		
	Heat Stabilized		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
	Fasteners		
Appearance	Black		
Resin ID (ISO 1043)	PA66-I GF30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.34	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	170	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/5
Flexural Modulus ¹	8200	MPa	ISO 178
Flexural Stress ²	270	MPa	ISO 178
Flexural Strain at Break ³	4.7	%	ISO 178
Reinforcement Content	30	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	12	kJ/m²	
23°C	17	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	110	kJ/m²	
23°C	100	kJ/m²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	245	°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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