

AKROLOY® PA GF 50 grey (3807)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA GF 50 grey (3807) is a 50% glass fibre reinforced polyamide blend with very high stiffness and strength
Applications are components with high dimensional stability, independent from moisture content. AKROLOY PA GF 50 is an alternative for aluminium- and zinc diecast alloys.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Good Dimensional Stability		
		High Stiffness		
		High Strength		
Uses		Metal Replacement		
Appearance		Grey		
Resin ID (ISO 1043)		PA66 + PA6I/6T GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17200	16500	MPa	ISO 527-2/1
Tensile Stress (Break)	250	220	MPa	ISO 527-2/5
Tensile Strain (Break)	2.7	3.0	%	ISO 527-2/5
Flexural Modulus ¹	13200	--	MPa	ISO 178
Flexural Stress ²	360	--	MPa	ISO 178
Flexural Strain at Break ³	3.5	--	%	ISO 178
Reinforcement Content	50	--	%	ISO 1172
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	
23°C	16	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	--	kJ/m ²	
23°C	110	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	221	--	°C	ISO 75-2/A
Melting Temperature ⁴	255	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 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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