

AKROLOY® PA GF 50 8 black (4173)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA GF 50 8 black (4173) is a 50% glass fibre reinforced polyamide blend with very high stiffness and strength, as well as reduced moisture absorption, modified for the respective application.
Applications are components with tight dimensional tolerances even under high mechanical load, especially in drinking water industry. It is a very cost effective alternative for zinc- and aluminium diecast alloys.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	High Stiffness		
	High Strength		
	Low Moisture Absorption		
Uses	Metal Replacement		
Appearance	Black		
Resin ID (ISO 1043)	PA66+PA6I/6T GF50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.59	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	3.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2/1
Tensile Stress (Break)	260	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	17000	MPa	ISO 178
Flexural Stress ²	400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	17	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	242	°C	ISO 75-2/A
8.0 MPa, Unannealed	183	°C	ISO 75-2/C
Melting Temperature ³	250	°C	DIN EN 11357-1
Additional Information	Nominal Value	Unit	Test Method

Reinforcement Content	50	%	ISO 1172
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		

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