

AKROLOY® PA GF 60 8 black (4174)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA GF 60 8 black (4174) is a 60% 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,60% Filler by Weight		
Features		High Stiffness		
		High Strength		
		Low Moisture Absorption		
Uses		Metal Replacement		
Appearance		Black		
Resin ID (ISO 1043)		PA66+PA6I/6T		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.72	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	6.00	--	cm ³ /10min	ISO 1133
Humidity Absorption - 62% RH (70°C)	1.1	--	%	ISO 1110
Reinforcement Content	60	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22000	20000	MPa	ISO 527-2/1
Tensile Stress (Break)	275	210	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	3.3	%	ISO 527-2/5
Flexural Modulus ¹	23000	21200	MPa	ISO 178
Flexural Stress ²	435	370	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	--	kJ/m ²	
23°C	18	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	--	kJ/m ²	
23°C	90	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	200	--	°C	ISO 75-2/C
Melting Temperature ³	255	--	°C	DIN EN 11357-1
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			

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