

AKROLOY® PA CF 40 black (3639)

Polyamide 66 + PA 6I/6T

AKRO-PLASTIC GmbH

Message:

AKROLOY® PA CF 40 black (3639) is a 40% carbon fibre reinforced polyamide blend with high tensile strength and good sliding properties as well as reduced moisture absorption

Applications are mechanical highly stressed components with high tensile strength and moisture independent properties

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	High Strength		
	High Tensile Strength		
	Low Flow		
	Low Moisture Absorption		
Appearance	Black		
Resin ID (ISO 1043)	PA66 + PA6I/6T CF40		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.33	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	30000	MPa	ISO 527-2/1
Tensile Stress (Break)	260	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	%	ISO 527-2/5
Flexural Modulus ¹	28500	MPa	ISO 178
Flexural Stress ²	380	MPa	ISO 178
Flexural Strain at Break ³	2.0	%	ISO 178
Reinforcement Content	40	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	220	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	°C	ISO 75-2/C

Melting Temperature ⁴	255	°C	DIN EN 11357-1
Flammability	Nominal Value	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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