

# AKROMID® B3 ICF 30 schwarz (5119)

Polyamide 6

AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

AKROMID® B3 ICF 30 schwarz (5119) ist ein 30% kohlefaserverstärktes Polyamid 6 mit guter Biegefestigkeit und guten Gleiteigenschaften

Mechanisch hochbelastete Bauteile in allen Industriesparten

### General

Material Status	• Commercial: Active
Search for UL Yellow Card	• AKRO-PLASTIC GmbH • AKROMID®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight • Carbon Fiber, 30% Filler by Weight
Features	• Good Strength • High Strength
Appearance	• Black
Resin ID (ISO 1043)	• PA6 CF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.28	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	23000	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	200	125	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2/5
Flexural Modulus <sup>2</sup>	18000	11300	MPa	ISO 178
Flexural Stress <sup>2</sup>	290	200	MPa	ISO 178
Flexural Strain at Break <sup>3</sup>	2.0	3.5	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m <sup>2</sup>	
23°C	10	15	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	--	kJ/m <sup>2</sup>	
23°C	55	70	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	210	--	°C	
Melting Temperature <sup>4</sup>	220	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+3	1.0E+3	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate <sup>5</sup> (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.6 mm)	HB	--		UL 94
Additional Information	Dry	Conditioned	Unit	Test Method
Reinforcement Content	30	--	%	ISO 1172



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## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min

<sup>3</sup> 2 mm/min

<sup>4</sup> 10°C/min

<sup>5</sup> >1 mm



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### Where to Buy

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#### Supplier

AKRO-PLASTIC GmbH

, Germany

Telephone: +49-2636-9742-0

Web: <http://www.akro-plastic.com/>

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#### Distributor

Please contact the supplier to find a distributor for AKROMID® B3 ICF 30 schwarz (5119)

