

# AKROMID® A3 GF 30 black (2428)

Polyamide 66

AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

AKROMID® A3 GF 30 black (2428) is a 30% glass fibre reinforced polyamide 6.6 with high rigidity and strength

Components in mechanical engineering and in the automotive industry

### 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	• Glass Fiber, 30% Filler by Weight
Features	• High Stiffness • High Strength
Uses	• Automotive Applications • Engineering Parts
Appearance	• Black
Resin ID (ISO 1043)	• PA66 GF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm <sup>3</sup>	ISO 1183
Spiral Flow <sup>2</sup>	83.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.20	--	%	
Water Absorption (Saturation, 23°C)	5.2 to 5.8	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.9 to 2.1	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7100	MPa	ISO 527-2/1
Tensile Stress (Break)	200	130	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	> 6.0	%	ISO 527-2/5
Flexural Modulus <sup>3</sup>	8800	7200	MPa	ISO 178
Flexural Stress <sup>3</sup>	285	220	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	--	kJ/m <sup>2</sup>	
23°C	12	16	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m <sup>2</sup>	
23°C	85	95	kJ/m <sup>2</sup>	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	240	--	MPa	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	210	--	°C	ISO 75-2/C
Melting Temperature <sup>4</sup>	262	--	°C	DIN EN 11357-1
CLTE				ISO 11359-2
Flow : 23 to 80°C	1.9E-5	--	cm/cm/°C	
Transverse : 23 to 80°C	9.5E-5	--	cm/cm/°C	
Temperature Index				IEC 60216
50% Loss of Tensile Strength, 20000 hr	130 to 150	--	°C	
50% Loss of Tensile Strength, 5000 hr	160 to 175	--	°C	



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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms-cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
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
Glow Wire Flammability Index (1.6 mm)	650	--	°C	IEC 60695-2-12
Additional Information	Dry	Conditioned	Unit	Test Method
Reinforcement Content	30	--	%	ISO 1172

## Notes

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

<sup>2</sup> cross section of flow spiral: 7 mm x 3.5 mm

<sup>3</sup> 2.0 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® A3 GF 30 black (2428)

