# AKROMID® B3 GF 30 4 L black (7481)

Polyamide 6 + PP

**AKRO-PLASTIC GmbH** 

## Technical Data

#### Product Description

AKROMID® B3 GF 30 4 L black (7481) is a 30% glass fibre reinforced and hydolysis stabilised polyamide-blend with a reduced density compared to standard PA6 GF 30

Mainly technical components in the automotive and electronic industry, where a weight and cost reduction is required

General			
Material Status	Commercial: Active		
Search for UL Yellow Card	<ul> <li>AKRO-PLASTIC GmbH</li> <li>AKROMID®</li> </ul>		
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Filler / Reinforcement	<ul> <li>Glass Fiber, 30% Filler by W</li> </ul>	Veight	
Additive	<ul> <li>Hydrolysis Resistant</li> </ul>		
Features	<ul> <li>Hydrolysis Resistant</li> </ul>		
Uses	Automotive Applications	<ul> <li>Electrical/Electronic Applications</li> </ul>	
Appearance	<ul> <li>Black</li> </ul>		
Resin ID	• PA6 + PP GF30		

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26		g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	14		cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.50 to 0.70		%	
Flow	0.10 to 0.30		%	
Humidity Absorption - 62% RH (70°C)	1.3 to 1.5		%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	7000	MPa	ISO 527-1/1
Tensile Stress (Break)	145	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.1	4.6	%	ISO 527-2/5
Flexural Modulus <sup>2</sup>	9200	6500	MPa	ISO 178
Flexural Stress <sup>2</sup>	225	160	MPa	ISO 178
Flexural Strain at Break <sup>3</sup>	3.4	4.3	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	18	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	65	kJ/m²	ISO 179/1eU
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	170		MPa	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	217		°C	ISO 75-2/B
1.8 MPa, Unannealed	200		°C	ISO 75-2/A
Melting Temperature <sup>4</sup>	220		°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 80°C	1.7E-5		cm/cm/°C	
Transverse : 23 to 80°C	1.3E-4		cm/cm/°C	
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (> 1.00 mm)	< 100		mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB			UL 94
Glow Wire Flammability Index (0.8 mm)	650		°C	IEC 60695-2-12



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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> 2.0 mm/min

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

<sup>4</sup> 10°C/min



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### Where to Buy

#### Supplier

AKRO-PLASTIC GmbH , Germany Telephone: +49-2636-9742-0 Web: http://www.akro-plastic.com/

#### Distributor

Please contact the supplier to find a distributor for AKROMID® B3 GF 30 4 L black (7481)



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