

AKROMID® B3 GF 30 4 L black (7481)

Polyamide 6 + PP
AKRO-PLASTIC GmbH

PROSPECTOR®

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Technical Data

Product Description

AKROMID® B3 GF 30 4 L black (7481) is a 30% glass fibre reinforced and hydrolysis 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	• AKRO-PLASTIC GmbH • AKROMID®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Hydrolysis Resistant
Features	• Hydrolysis Resistant
Uses	• Automotive Applications • Electrical/Electronic Applications
Appearance	• Black
Resin ID	• PA6 + PP GF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	14	--	cm ³ /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 ²	9200	6500	MPa	ISO 178
Flexural Stress ²	225	160	MPa	ISO 178
Flexural Strain at Break ³	3.4	4.3	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	65	kJ/m ²	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 ⁴	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

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ 2 mm/min

⁴ 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)

