

AKROMID® B3 GF 30 1 L black (4365)

Polyamide 6 + PP

AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

AKROMID® B3 GF 30 1 L black (4365) is a 30% glass fibre reinforced and heat 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
UL Yellow Card ¹	• E148915-101075626
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	• Heat Stabilizer
Features	• Heat Stabilized
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)	18	--	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)	1.4	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	6800	MPa	ISO 527-1/1
Tensile Stress (Break)	140	105	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.5	%	ISO 527-2/5
Flexural Modulus ³	8800	6200	MPa	ISO 178
Flexural Stress ³	215	155	MPa	ISO 178
Flexural Strain at Break ⁴	3.2	4.4	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	13	kJ/m ²	
23°C	15	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	56	55	kJ/m ²	
23°C	70	67	kJ/m ²	
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 ⁵	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	



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Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
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
Glow Wire Ignition Temperature (0.8 mm)	675	--	°C	IEC 60695-2-13
Additional Information	Dry	Conditioned	Unit	Test Method
Reinforcement Content	30	--	%	ISO 1172

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 2.0 mm/min

⁴ 2 mm/min

⁵ 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 1 L black (4365)

