

AKROMID® A3 GK 30 black (2306)

Polyamide 66

AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

AKROMID® A3 GK 30 black (2306) is a 30% glass bead filled polyamide 6.6 with low warpage and high surface appearance

Highly integrated housings in the appliance 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 Bead, 30% Filler by Weight
Features	• Good Surface Finish • Low Warpage
Uses	• Appliances • Housings
Appearance	• Black
Resin ID (ISO 1043)	• PA66 GB30

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.35 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	1.3 to 1.4 %	
Flow	1.1 to 1.3 %	
Humidity Absorption - 62% RH (70°C)	2.0 %	ISO 1110
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	5000 MPa	ISO 527-2/1
Tensile Stress (Break)	90.0 MPa	ISO 527-2/5
Tensile Strain (Break)	4.0 %	ISO 527-2/5
Flexural Modulus ²	4300 MPa	ISO 178
Flexural Stress ²	140 MPa	ISO 178
Flexural Strain at Break ³	6.5 %	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	3.0 kJ/m ²	
23°C	4.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	22 kJ/m ²	
23°C	28 kJ/m ²	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	225 °C	ISO 75-2/B
1.8 MPa, Unannealed	100 °C	ISO 75-2/A
Melting Temperature ⁴	262 °C	DIN EN 11357-1
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	IEC 60093
Comparative Tracking Index (Solution A)	500 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Burning Rate ⁵ (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	Nominal Value Unit	Test Method
Reinforcement Content	30 %	ISO 1172



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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

⁵ >1 mm



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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® A3 GK 30 black (2306)

