

# AKROMID® B3 1 L natural (4685)

Polyamide 6 + PP  
AKRO-PLASTIC GmbH

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

AKROMID® B3 1 L natural (4685) is an unreinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6

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
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Uses	• Automotive Applications • Electrical/Electronic Applications
Appearance	• Natural Color
Resin ID	• PA6 + PP

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.03 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	70 cm <sup>3</sup> /10min	ISO 1133
Spiral Flow		Internal Method
--2	22.0 cm	
--3	66.0 cm	
Molding Shrinkage		ISO 294-4
Across Flow	1.6 %	
Flow	1.4 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2400 MPa	ISO 527-1/1
Tensile Stress (Yield)	55.0 MPa	ISO 527-2/50
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	ISO 179/1eU
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	140 °C	ISO 75-2/B
1.8 MPa, Unannealed	60.0 °C	ISO 75-2/A
Melting Temperature <sup>4</sup>	220 °C	ISO 11357-3
Flammability	Nominal Value Unit	Test Method
Burning Rate (> 1.00 mm)	< 100 mm/min	FMVSS 302
Flame Rating (0.8 mm)	HB	UL 94
Additional Information	Nominal Value Unit	Test Method
Reinforcement Content	0.0 %	ISO 1172

## Notes

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

<sup>2</sup> Mold Temperature: 80°C, Melt Temperature: 270°C, Injection Pressure: 750 bar, 1.00 mm

<sup>3</sup> Mold Temperature: 80°C, Melt Temperature: 270°C, Injection Pressure: 750 bar, 2.00 mm

<sup>4</sup> 10°C/min



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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® B3 1 L natural (4685)

