

# AKROMID®

B3 GF 40 black (3383)  
PA6 GF40



**AKRO-PLASTIC GmbH**

Member of the Feddersen Group

Industriegebiet Brohltal Ost  
Im Stiefelfeld 1  
D-56651 Niederzissen  
Phone +49 2636/9742-0  
Fax +49 2636/9742-31  
info@akro-plastic.com  
www.akro-plastic.com

## Datasheet

### Description

AKROMID B3 GF 40 black (3383) is a 40% glass fiber reinforced polyamide 6 with high rigidity and strength

### Applications

Applications are mainly components in mechanical engineering and in the automotive industry

Typical values	Test specification	Method	Unit	Value	
				d.a.m.	moist.*

## Mechanical Properties

Tensile modulus	1 mm/min	ISO 527-2	MPa	12800	8200
Tensile stress at break	5 mm/min	ISO 527-2	MPa	210	130
Elongation at break	5 mm/min	ISO 527-2	%	4	5
Flexural modulus	2 mm/min	ISO 178	MPa	10300	
Flexural strength	2 mm/min	ISO 178	MPa	300	
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m <sup>2</sup>	110	110
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m <sup>2</sup>	110	
Charpy impact strength	-40°C	ISO 179-1/1eU	kJ/m <sup>2</sup>	110	
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m <sup>2</sup>	18	23
Charpy notched impact strength	-30°C	ISO 179-1/1eA	kJ/m <sup>2</sup>	14	
Charpy notched impact strength	-40°C	ISO 179-1/1eA	kJ/m <sup>2</sup>	14	
Izod notched impact strength	23°C	ISO 180	kJ/m <sup>2</sup>	20	
Izod notched impact strength	-40°C	ISO 180	kJ/m <sup>2</sup>	14	

## Thermal Properties

				d.a.m.
Melting Point	DSC, 10K/min	DIN EN 11357-1	°C	222
Heat distortion temperature HDT/A	1,8 MPa	ISO 75	°C	215

## Flammability

Flammability	1,6 mm	UL 94	class	HB
Burning rate (< 100 mm/min)	> 1 mm thickness	FMVSS 302	mm/min	+

## General Properties

Density	23°C	ISO 1183	g/cm <sup>3</sup>	1,45
Content reinforcement		ISO 1172	%	40

## Processing

Flowability	Flowspiral <sup>1</sup>	AKRO	mm	480
Molding shrinkage	flow	ISO 294-4	%	0,3
Molding shrinkage	transverse	ISO 294-4	%	0,8

\* moist. = specimen acc. ISO 1110 stored

<sup>1</sup> = mould temperature: 80°C, melt temperature: 270°C, injection pressure: 750 bar, cross section of flow spiral: 7mm x 3,5mm

### AKRO-PLASTIC GmbH

Commercial registered office: Niederzissen

Commercial Register: Koblenz HRB 12227

Managing Director: Andreas Stuber, Dirk Steinbrück

Chairman of the Supervisory Board: Dr. Matthias von Rönn

The information contained herein is based on our current knowledge and experience. A legally binding promise of certain characteristics or suitability for a concrete individual case cannot be derived from this information. The information supplied here is not intended to release processors and users from the responsibility of carrying out their own tests and inspections in each concrete individual case. AKRO®, AKROMID®, AKROLEN®, AKROLOY® and AKROTEK® are registered or pending trademarks of the Feddersen Group.