

ndustriegebiet Brohltal Ost · Im Stiefelfeld 1 · D-56651 Niederzissen · www.akro-plastic.com

PA6 - Polyamide 6 PA6 CF40

# AKROMID® B3 ICF 40 AM black (8236)

Tensile modulus

## 27000 MPa

**1 mm/min** ISO 527-2

Stress at break

### 210 MPa

5 mm/min ISO 527-2 Charpy impact strength

# 45 kJ/m<sup>2</sup>

ISO 179-1/1eU

AKROMID® B3 ICF 40 AM black (8236) is a 40% carbon fibre reinforced polyamide 6 with high flexural strength and good sliding properties. It is suitable for a stable additive manufacturing process (3D Printing) at fast production speeds.

#### **Typical applications**

Mechanically high stressed parts in all industries, additive manufacturing



#### **Mechanical Properties**

Tensile modulus (1 mm/min   ISO 527-2) d.a.m.	27000 MPa
Stress at break (5 mm/min   ISO 527-2) d.a.m.	210 MPa
Strain at break (5 mm/min   ISO 527-2) d.a.m.	1,4 %
Charpy impact strength (23°C   ISO 179-1/1eU) d.a.m.	45 kJ/m²
Charpy notched impact strength (23°C   ISO 179-1/1eA) d.a.m.	8 kJ/m²



#### **Thermal Properties**

Melting temperature (DSC, 10K/min | DIN EN ISO 11357-3) 220 °C



#### Flammability

Burning rate (UL 94) 1,6mm Wall thickness

**HB Class** 



#### General properties

Density (23°C   ISO 1183)	1,31 g/cm <sup>3</sup>
Molding shrinkage (flow   ISO 294-4)	0,1-0,3 %
Molding shrinkage (transverse   ISO 294-4)	0,5-0,7 %



#### **Electrical Properties**

/	Surface resistivity (DIN EN 62631-3-2)	
	d.a.m.	1,0E+3 Ohm
	conditioned	1,0E+3 Ohm

#### Disclaimer:

ndustriegebiet Brohltal Ost $\cdot$  Im Stiefelfeld  $1 \cdot$  D-56651 Niederzissen $\cdot$  www.akro-plastic.con

PA6 - Polyamide 6 PA6 CF40

# AKROMID® B3 ICF 40 AM black (8236)

#### **Processing information**

The listed values are recommendations. Higher values should be used for higher glass loadings. We recommend only dehumidifying or vacuum dryers. Extensive drying can cause filling problems and surface defects.

