AKRO-PLASTIC:

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PA6.6 - Polyamide 6.6 PA66+PA6I/6T GF40

# AKROLOY® PA GF 40 natural (6413)

Tensile modulus

### 13000 MPa

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

Stress at break

### 235 MPa

5 mm/min ISO 527-2 Charpy impact strength

95 kJ/m<sup>2</sup>

ISO 179-1/1eU

AKROLOY® PA GF 40 natural (6413) is a 40% glass fibre reinforced, semi-aromatic polyamide blend with very high stiffness and strength, even in conditioned state.

#### **Typical applications**

Components with high dimensional stability, independent from moisture content. AKROLOY® PA GF 40 is an alternative for aluminium- and zinc diecast alloys.



#### **Mechanical Properties**

	Tensile modulus (1 mm/min   ISO 527-2) d.a.m.	13000 MPa
	Stress at break (5 mm/min   ISO 527-2) d.a.m.	235 MPa
	Strain at break (5 mm/min   ISO 527-2) d.a.m.	2,9 %
	Flexural modulus (2 mm/min   ISO 178) d.a.m.	12500 MPa
	Flexural strength (2 mm/min   ISO 178) d.a.m.	330 MPa
	Flexural strain at break (2 mm/min   ISO 178) d.a.m.	3,1 %
	Charpy impact strength (23°C   ISO 179-1/1eU) d.a.m.	95 kJ/m²
	Charpy notched impact strength (23°C   ISO 179-1/1eA) d.a.m.	15 kJ/m²



#### **Thermal Properties**

Temperature of deflection under load HDT/A (1,8 MPa   ISO 75)	237 °C
Temperature of deflection under load HDT/C (8 MPa   ISO 75)	173 °C
Melt temperature (DSC, 10K/min   DIN EN 11357-1)	255 °C



#### **General properties**

Density (23°C   ISO 1183)	1,47 g/cm <sup>3</sup>
Molding shrinkage (flow   ISO 294-4)	0,3 %
Molding shrinkage (transverse   ISO 294-4)	0,8 %



#### **Rheological Properties**

Flowability (1mm Thickness   AKRO)	140 mm
Flowability (2mm Thickness   AKRO)	400 mm

#### Disclaimer:

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#### **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.

