

PA6.6/6 – Polyamide 6.6/6 PA66 + PA6 GF 30

AKROMID® C3 GF 30 5 XTC natural (4499)

Tensile modulus

9500 MPa

1 mm/min

ISO 527-2

Stress at break

185 MPa

5 mm/min

ISO 527-2

Charpy impact strength

95 kJ/m²

23°C

ISO 179-1/1eU

AKROMID® C3 GF 30 5 XTC natural (4499) is a **30% glass fibre reinforced, high temperature stabilised polyamide 6.6/6 - Blend with high stiffness and strength and extra high temperature tolerance.**

Typical applications

Components in mechanical engineering and in the automotive industry.



Mechanical Properties

Tensile modulus (1 mm/min | ISO 527-2)

d.a.m.

9500 MPa

conditioned

6000 MPa

Stress at break (5 mm/min | ISO 527-2)

d.a.m.

185 MPa

conditioned

115 MPa

Strain at break (5 mm/min | ISO 527-2)

d.a.m.

3,5 %

conditioned

6,5 %

Charpy impact strength (23°C | ISO 179-1/1eU)

d.a.m.

95 kJ/m²

conditioned

90 kJ/m²

Charpy notched impact strength (23°C | ISO 179-1/1eA)

d.a.m.

13 kJ/m²

conditioned

13 kJ/m²



Thermal Properties

Temperature of deflection under load HDT/A (1,8 MPa | ISO 75)

230 °C

Temperature of deflection under load HDT/B (0,45 MPa | ISO 75)

250 °C

Melting temperature (DSC, 10K/min | DIN EN 11357-1)

245 °C



Flammability

Burning rate (UL 94)

1,6mm Wall thickness

HB Class

Burning rate (<100 mm/min) (> 1 mm Thickness | FMVSS 302)

+



General properties

Density (23°C | ISO 1183)

1,36 g/cm³

Humidity absorption (70°C, 62% r.F. | ISO 1110)

2,0-2,2 %

Molding shrinkage (flow | ISO 294-4)

0,1-0,3 %

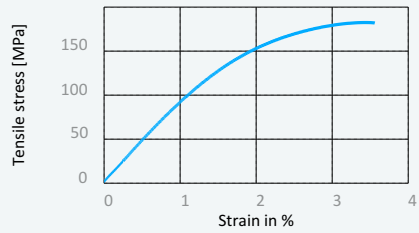
Molding shrinkage (transverse | ISO 294-4)

0,4-0,6 %

Disclaimer:

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Stress strain chart at 23°C



Electrical Properties

Volume resistivity (IEC 60093)

d.a.m.

1,0E+13 Ohm x cm

conditioned

1,0E+10 Ohm x cm

Surface resistivity (acc. to IEC 60093)

d.a.m.

1,0E+12 Ohm

conditioned

1,0E+10 Ohm

Comparative tracking index (Test liquid A | IEC 60112)

600 V

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