

PBT – Polybutyleneterephthalate PBT-I GF30

PRECITE® P3 GF 30 4 black (7622)

Tensile modulus

8000 MPa

1 mm/min
ISO 527-2

Stress at break

110 MPa

5 mm/min
ISO 527-2

Charpy impact strength

80 kJ/m²

23°C
ISO 179-1/1eU

PRECITE® P3 GF 30 4 black (7622) is a 30% glass fibre reinforced, hydrolysis stabilised polybutylene terephthalate (PBT) with high stiffness and toughness as well as high dimensional stability and chemical resistance.

Typical applications

Technical and precision parts in automobile, industrial, E/E and appliances industry. Especially in humid environment



Mechanical Properties

Tensile modulus (1 mm/min ISO 527-2) d.a.m.	8000 MPa
Stress at break (5 mm/min ISO 527-2) d.a.m.	110 MPa
Strain at break (5 mm/min ISO 527-2) d.a.m.	4,4 %
Charpy impact strength (23°C ISO 179-1/1eU) d.a.m.	80 kJ/m ²
Charpy notched impact strength (23°C ISO 179-1/1eA) d.a.m.	20 kJ/m ²



Thermal Properties

Temperature of deflection under load HDT/A (1,8 MPa ISO 75)	200 °C
Melting temperature (DSC, 10K/min DIN EN 11357-1)	225 °C



Flammability

Burning rate (UL 94) 0,8mm Wall thickness	HB Class
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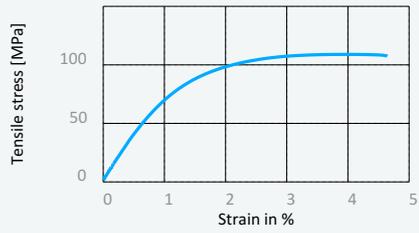
General properties

Density (23°C ISO 1183)	1,41 g/cm ³
Molding shrinkage (flow ISO 294-4)	0,2 - 0,4 %
Molding shrinkage (transverse ISO 294-4)	0,8 - 1,0 %

Disclaimer:

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Stress strain chart at 23°C



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