

CELSTRAN® TPU-CF40-01

CELSTRAN® Long Fibre

40% long carbon fiber reinforced Thermoplastic Polyurethane

Product information

Resin Identification	TPU-LCF40	ISO 1043
Part Marking Code	>TPU-LCF40<	ISO 11469

Typical mechanical properties

Tensile modulus	28900 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	300 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.3 %	ISO 527-1/-2
Flexural modulus	25300 MPa	ISO 178
Flexural strength	420 MPa	ISO 178
Charpy notched impact strength, 23°C	35 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Physical/Other properties

Density	1360 kg/m ³	ISO 1183
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Injection

Ejection temperature	145 °C
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Low Warpage, Light weight

Additional information

Processing Notes

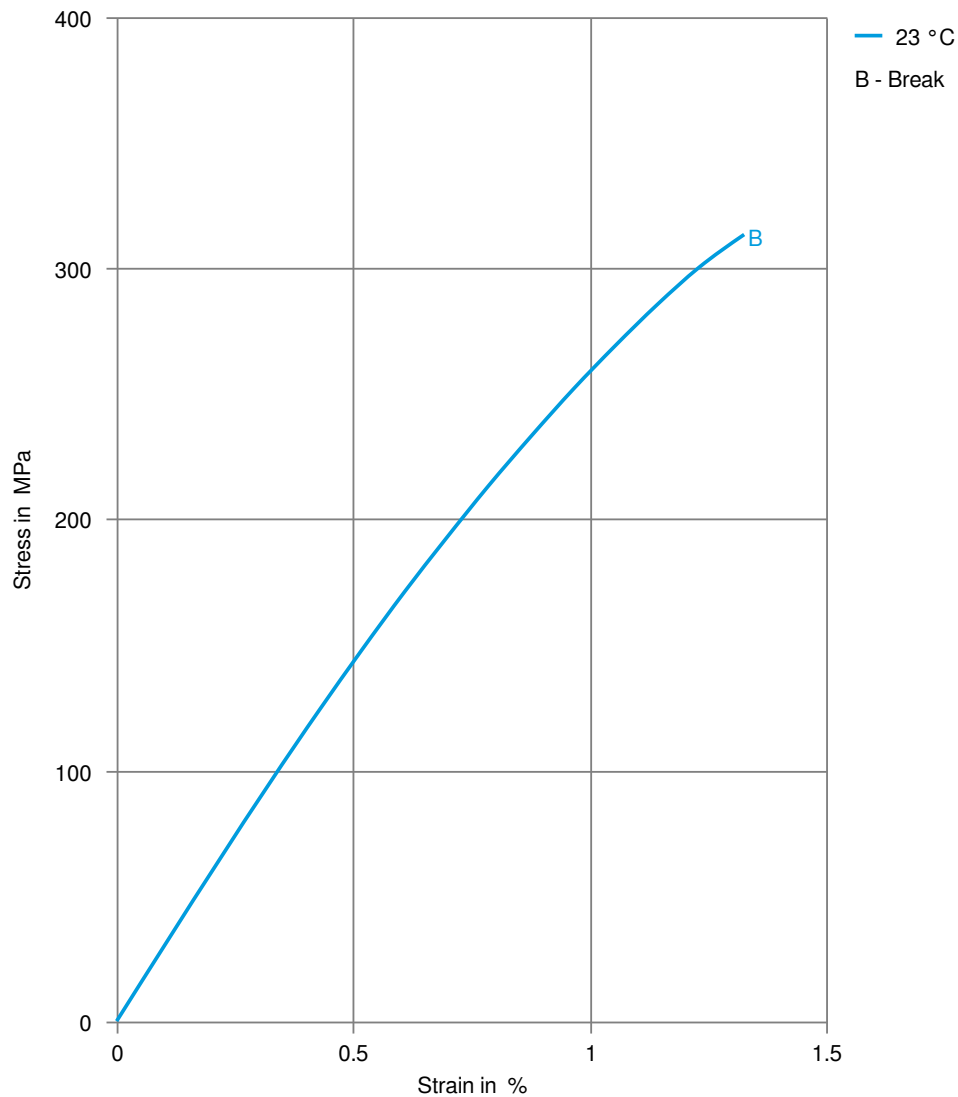
Pre-Drying

CELSTRAN TPU should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be =< -30°C. The time between drying and processing should be as short as possible

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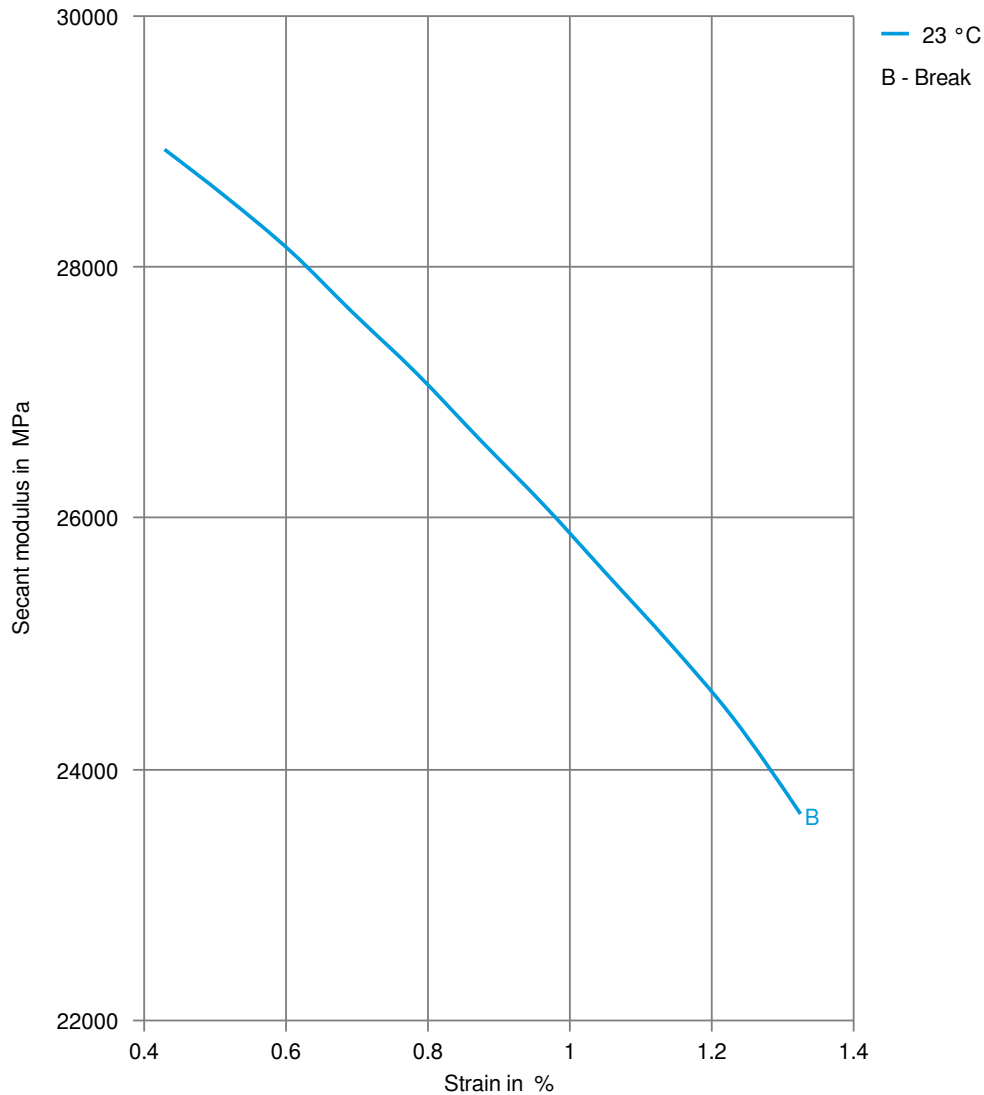
Stress-strain



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Secant modulus-strain



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