

# 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 <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 <sup>[C]</sup>	

[C]: Calculated

### Physical/Other properties

Density	1360 kg/m <sup>3</sup>	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

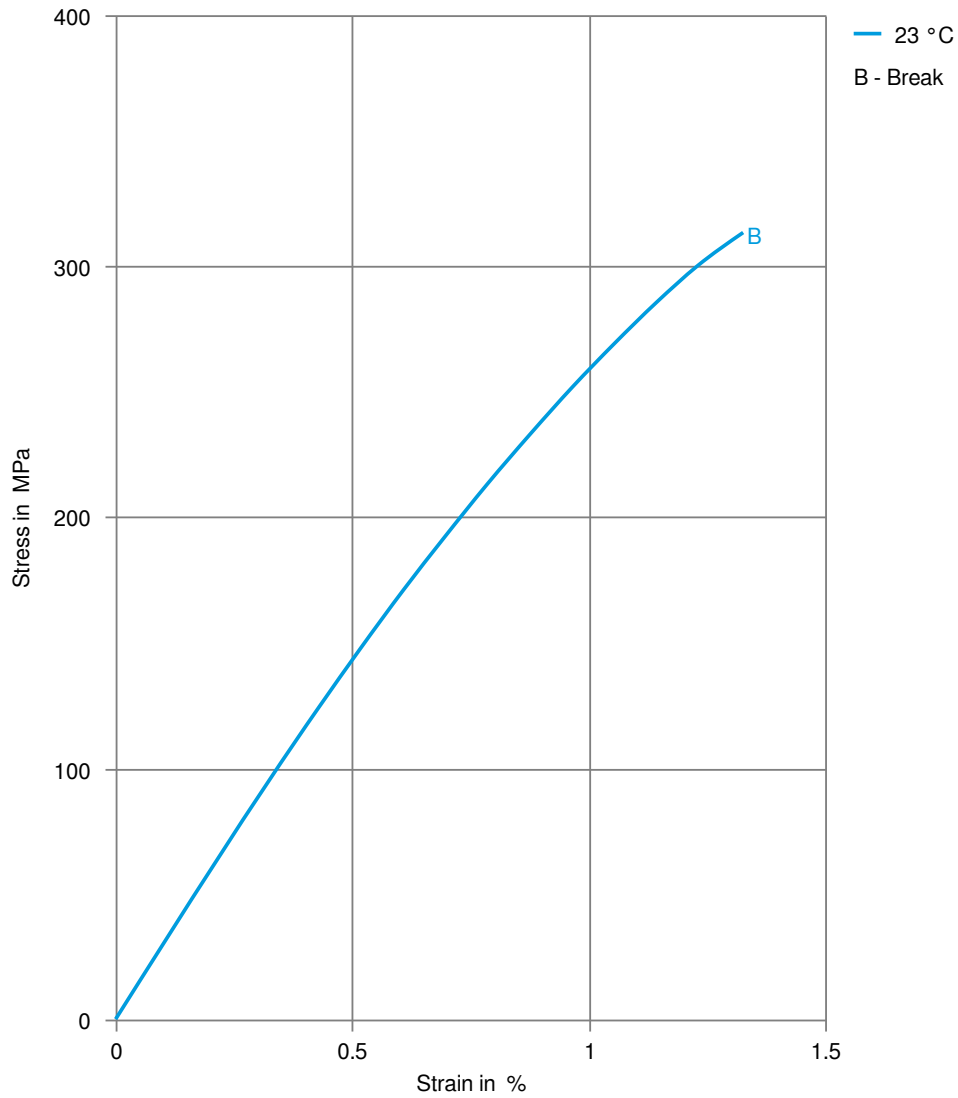
#### Pre-Drying

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

