

# CELSTRAN® PA6-CF40-01

## CELSTRAN® Long Fibre

Celstran® PA6-CF40-01 is a 40% long Carbon fiber Polyamide. This material imparts excellent impact and modulus properties that exceed that of short fiber PA6.

### Product information

Resin Identification	PA6-LCF40	ISO 1043
Part Marking Code	>PA6-LCF40<	ISO 11469

### Typical mechanical properties

Tensile modulus	29000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	310 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.3 %	ISO 527-1/-2
Flexural modulus	26500 MPa	ISO 178
Flexural strength	460 MPa	ISO 178
Charpy impact strength, 23°C	73 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	26 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 <sup>[C]</sup>	

[C]: Calculated

### Physical/Other properties

Density	1310 kg/m <sup>3</sup>	ISO 1183
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### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Increased electrical conductivity, Light weight

### Additional information

Processing Notes

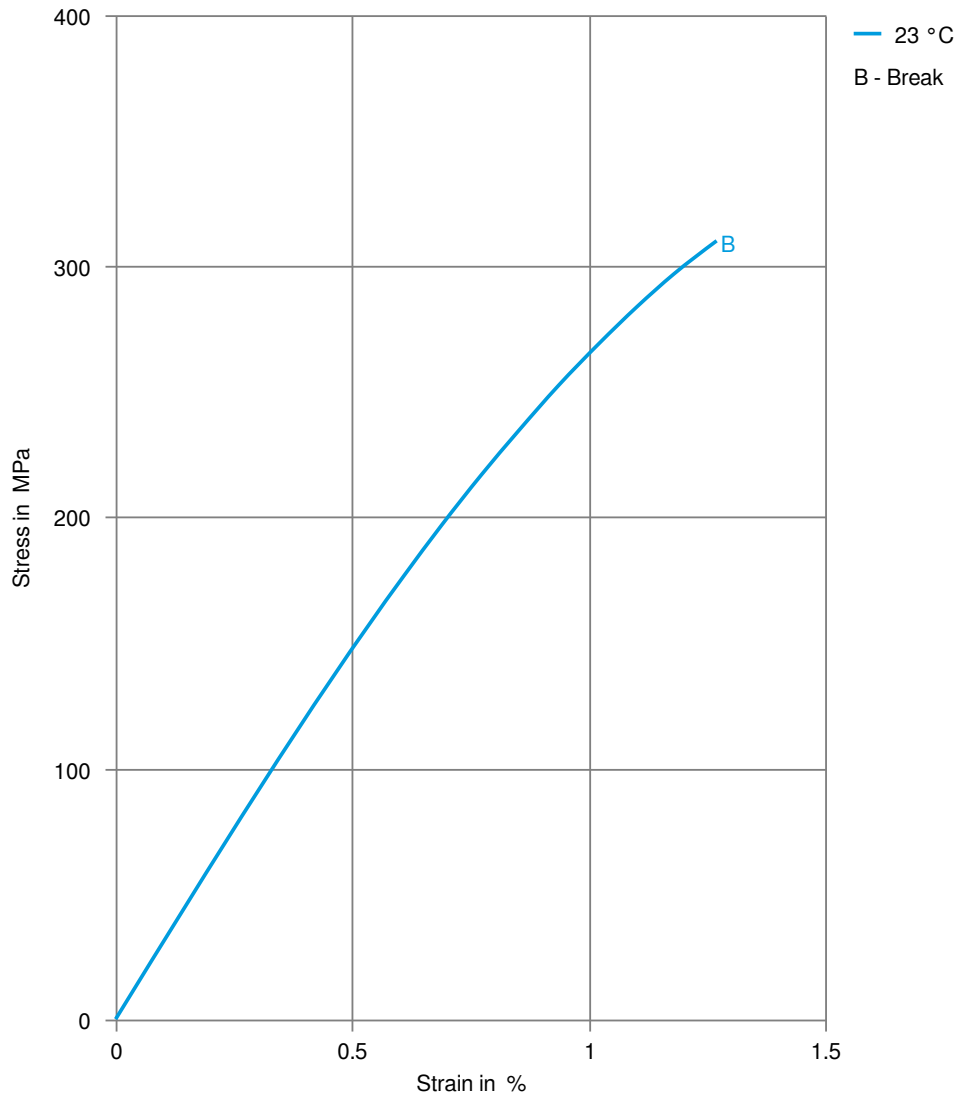
#### Pre-Drying

Up to 5-10% of clean, properly dried regrind may be blended with virgin Celstran resin.

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## Stress-strain



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## Secant modulus-strain

