

CELSTRAN® PP-GF50-02- Natural

Polypropylene with 50% reinforced long glass fibers
 50% long strand glass fiber chemically coupled polypropylene, Natural

Typical mechanical properties

Tensile Modulus	11600 MPa	ISO 527-1/-2
Stress at break, 5mm/min	148 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.9 %	ISO 527-1/-2
Flexural Modulus	12000 MPa	ISO 178
Flexural Strength	252 MPa	ISO 178
Charpy notched impact strength, 23°C	44 kJ/m ²	ISO 179/1eA

Flammability

Burning Behav. at thickness h	HB class	UL 94
Thickness tested	1.50 mm	UL 94
UL recognition	yes	UL 94

Other properties

Density	1340 kg/m ³	ISO 1183
---------	------------------------	----------

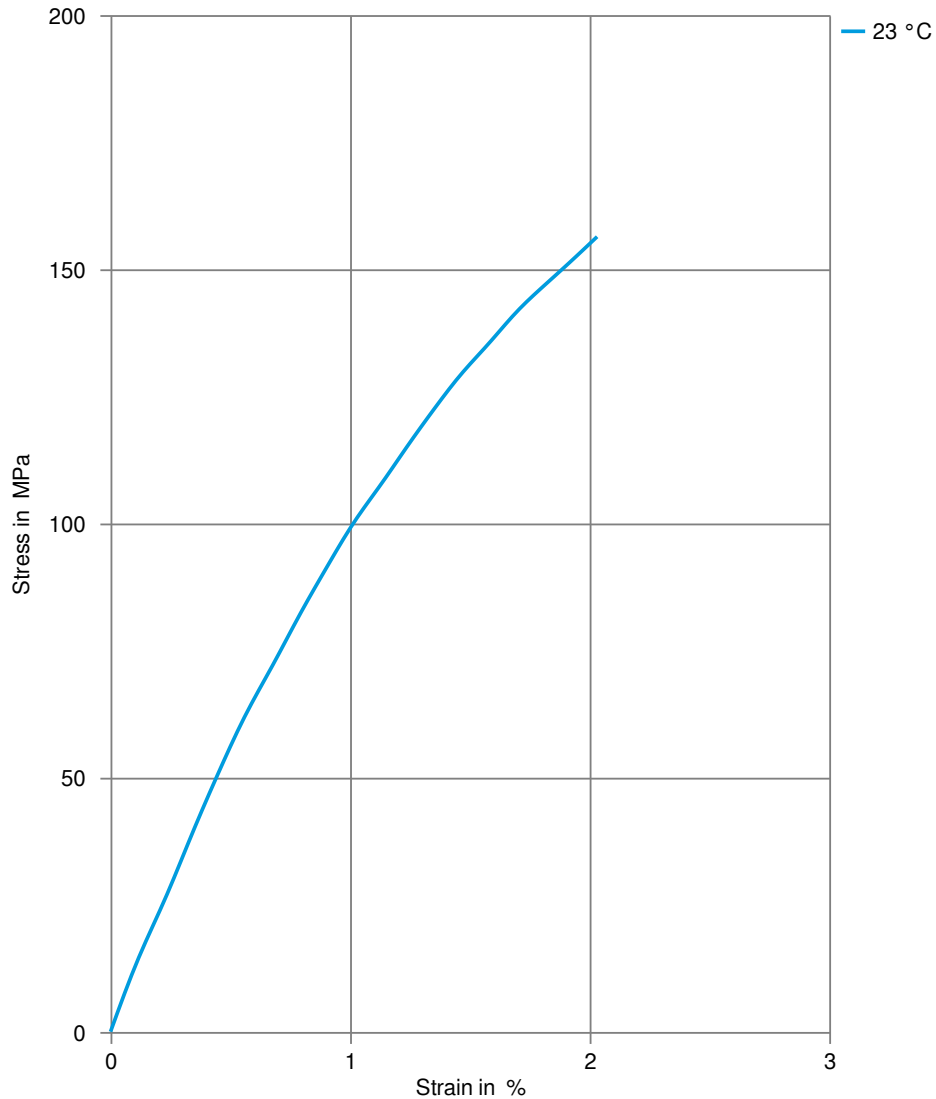
Injection

Drying Temperature	90 - 100 °C
Drying Time, Dehumidified Dryer	2 h
Processing Moisture Content	0.2 %
Screw tangential speed	0.1 m/s
Max. mould temperature	30 - 70 °C
Back pressure	3 MPa
Injection speed	slow



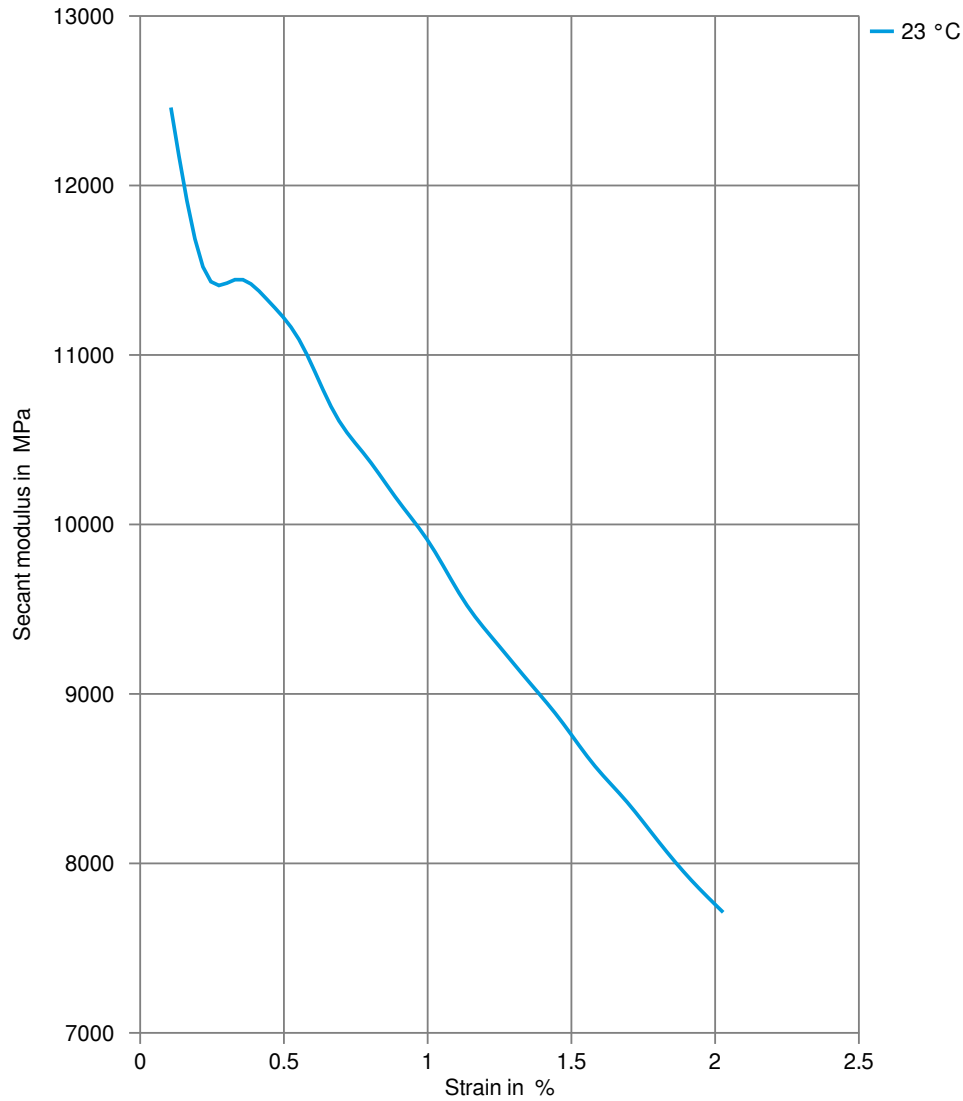
CELSTRAN® PP-GF50-02- Natural

Stress-strain



CELSTRAN® PP-GF50-02- Natural

Secant modulus-strain



CELSTRAN® PP-GF50-02- Natural

Processing Texts

Pre-drying

It is normally not necessary to dry CELSTRAN PP. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required.

Longer pre-drying times/storage

The product can then be stored in standard conditions until processed.

