

CELSTRAN® PP-GF40-02-Black

40% long strand glass fiber reinforced, chemically coupled polypropylene
 40% long strand glass fiber reinforced polypropylene, black.

Rheological properties

Moulding shrinkage range, parallel	0.2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.2 - 0.4 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	9200 MPa	ISO 527-1/-2
Stress at break, 5mm/min	130 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2 %	ISO 527-1/-2
Flexural Modulus	9000 MPa	ISO 178
Flexural Strength	200 MPa	ISO 178
Charpy impact strength, 23°C	62 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	60 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	25 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	30 kJ/m ²	ISO 179/1eA

Thermal properties

Temp. of deflection under load, 1.8 MPa	158 °C	ISO 75-1/-2
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Flammability

Burning Behav. at thickness h	HB class	UL 94
Thickness tested	3.20 mm	UL 94

Other properties

Density	1210 kg/m ³	ISO 1183
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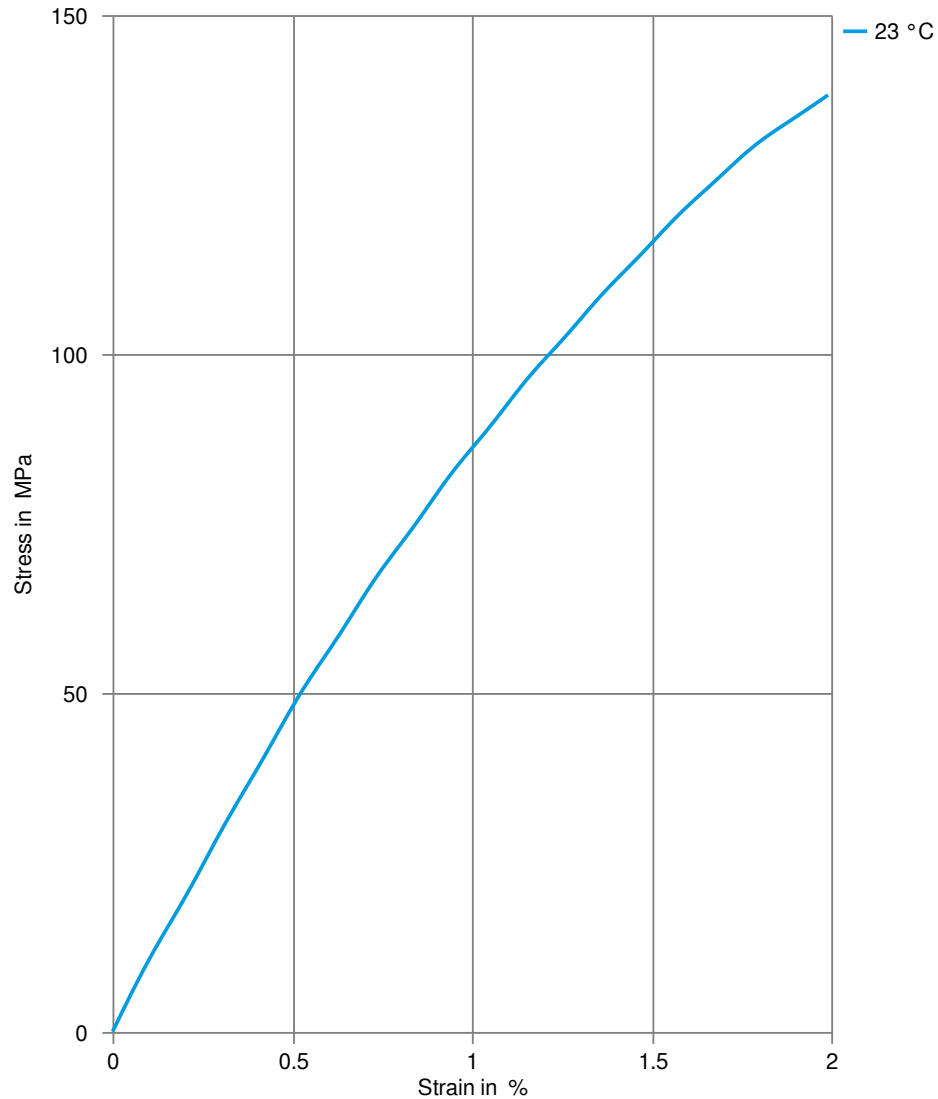
Injection

Drying Temperature	90 - 100 °C	
Drying Time, Dehumidified Dryer	2 h	
Processing Moisture Content	0.2 %	
Melt Temperature Optimum	225 °C	Internal
Screw tangential speed	0.1 m/s	
Max. mould temperature	30 - 70 °C	
Back pressure	3 MPa	
Injection speed	slow	



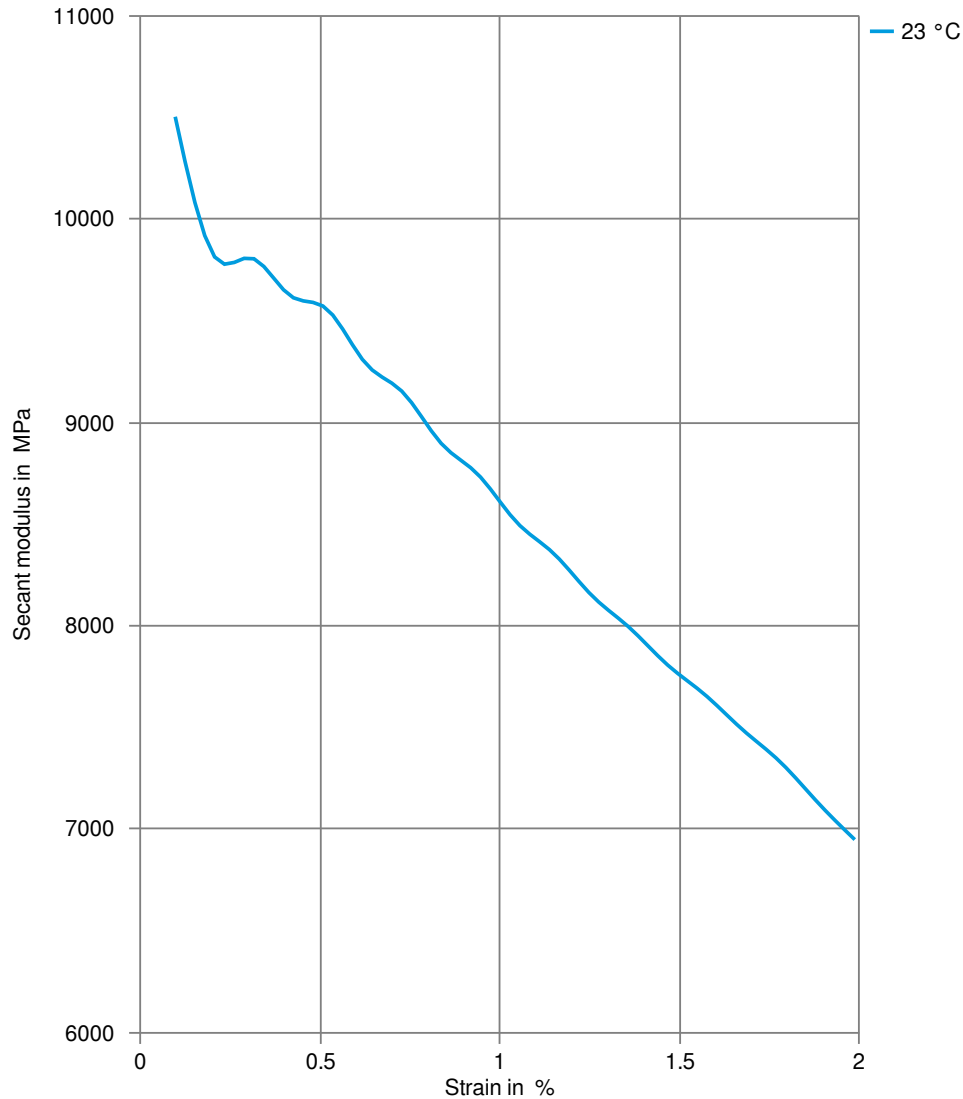
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Stress-strain



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Secant modulus-strain



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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.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	CPN 5307	Black
Ford	WSS-M4D865-B1	

