

CELSTRAN® PP-GF20-02 Natural

20% long glass fiber filled polypropylene. Developed to provide excellent surface appearance.

Material Code according to ISO 104-1: PP Polypropylene homopolymer reinforced with 20 weight percent long glass fibers. Natural. The fibers are chemically coupled to the polypropylene matrix. Then pellets are cylindrical and normally as well as the embedded fibers 10mm long

Typical mechanical properties

Tensile Modulus	5400 MPa	ISO 527-1/-2
Stress at break, 5mm/min	105 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.8 %	ISO 527-1/-2
Flexural Modulus	5150 MPa	ISO 178
Flexural Strength	160 MPa	ISO 178
Charpy notched impact strength, 23°C	23 kJ/m²	ISO 179/1eA
Poisson's ratio	0.35	

Thermal properties

Temp. of deflection under load, 1.8 MPa	157 °C	ISO 75-1/-2
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Flammability

Burning Behav. at thickness h	HB class	UL 94
Thickness tested	1.00 mm	UL 94

Other properties

Density	1030 kg/m³	ISO 1183
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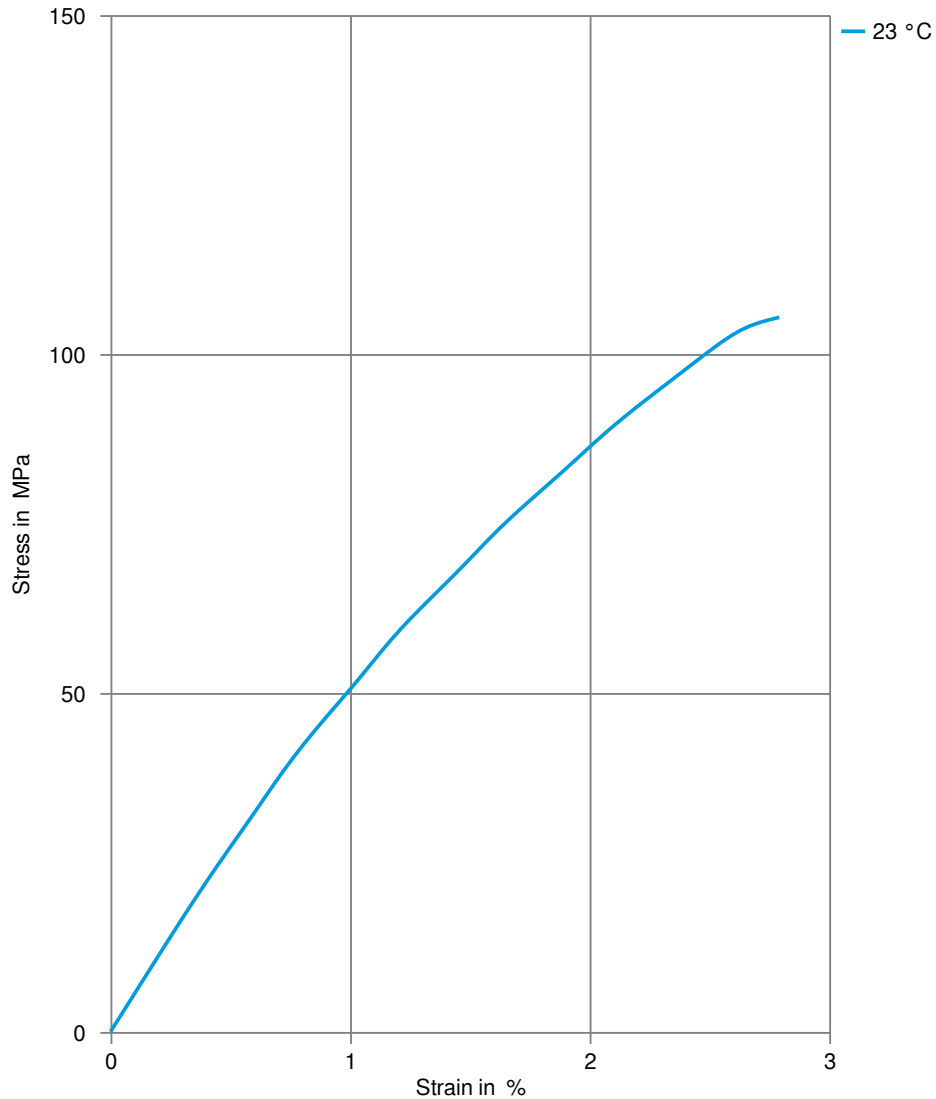
Injection

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



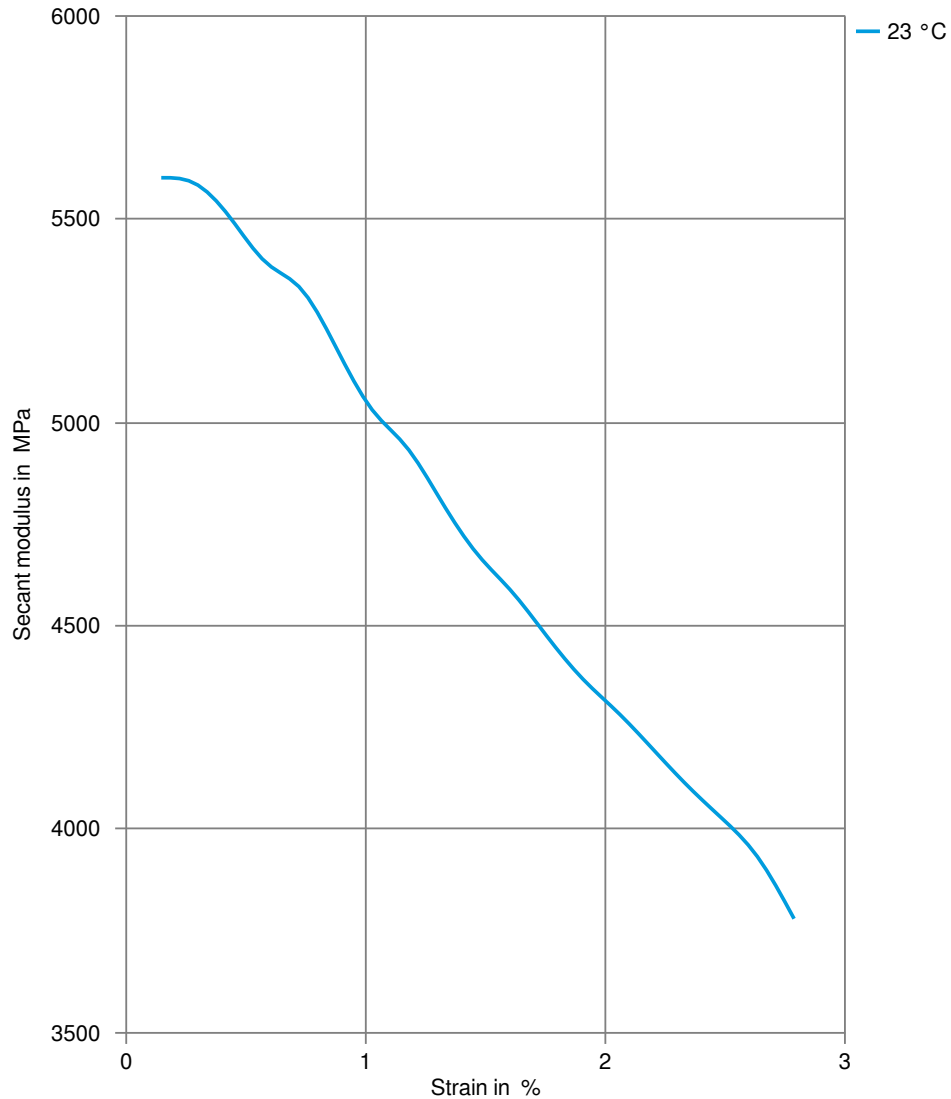
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Stress-strain



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Secant modulus-strain



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Other Approvals

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OEM	Specification	Additional Information
Stellantis - Chrysler	CPN 5109	Natural
Stellantis - Chrysler	CPN 5104	Color match
Ford	WSS-M4D865-B5	
Ford	WSS-M4D865-B7	
Li Auto	Q/LiA5310050	
Tesla	TM-1001-12,22	Winona USA

