

# CELSTRAN® PP-GF20-02 NATURAL

## CELSTRAN® Long Fibre

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

### Product information

Resin Identification	PP-LGF20	ISO 1043
Part Marking Code	>PP-LGF20<	ISO 11469

### Typical mechanical properties

Tensile modulus	5400 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	105 MPa	ISO 527-1/-2
Tensile 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/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.35	

### Thermal properties

Melting temperature, 10°C/min	163 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	157 °C	ISO 75-1/-2

### Flammability

Burning Behav. at thickness h	HB <sup>[1]</sup> class	IEC 60695-11-10
Thickness tested	1 mm	IEC 60695-11-10
[1]: 28 mm/min		

### Physical/Other properties

Density	1030 kg/m <sup>3</sup>	ISO 1183
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### Injection

Back pressure	3 MPa
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### Characteristics

Processing	Injection Moulding
Delivery form	Pellets

### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Ford	WSS-M4D865-B5	
Ford	WSS-M4D865-B7	
Li Auto	Q/LiA5310050	
Stellantis - Chrysler	MS-DB-21 / CPN-5109	Natural

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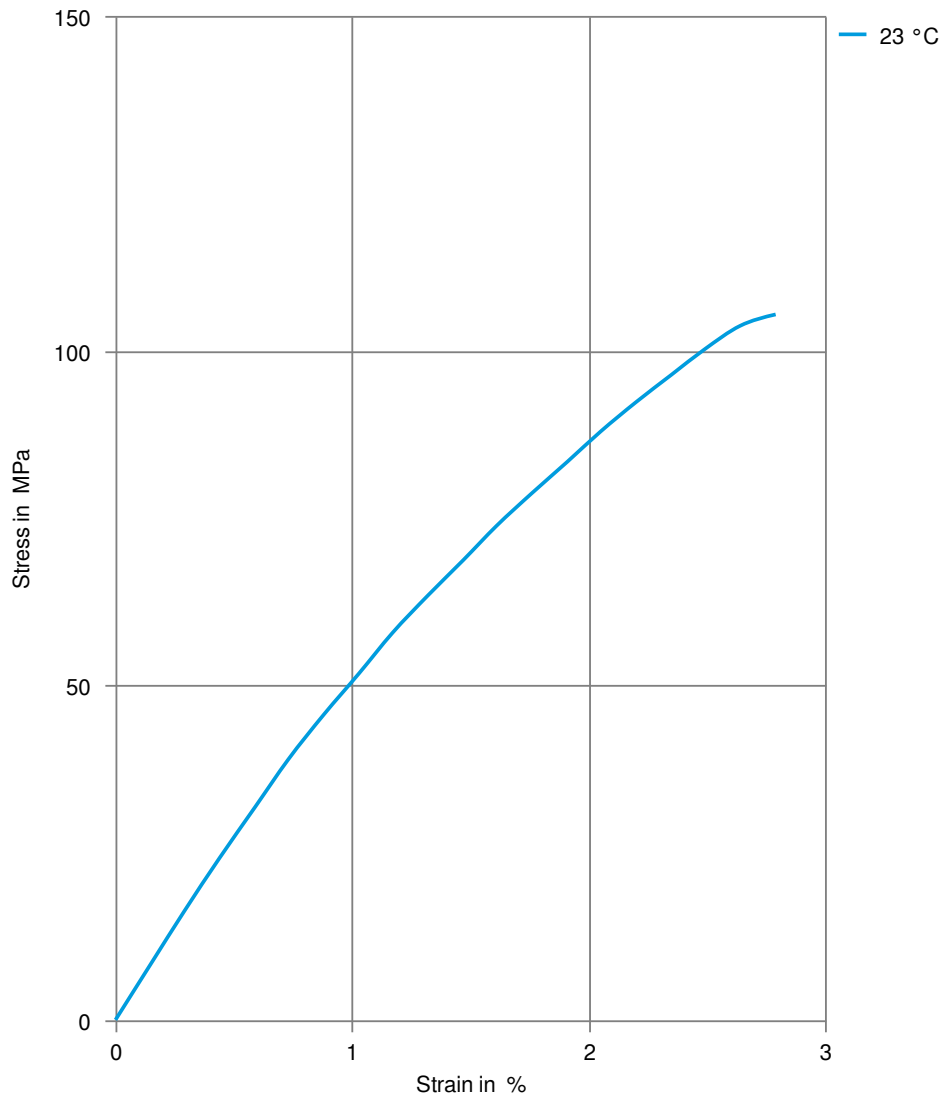
## CELSTRAN® Long Fibre

Tesla  
Tesla

TM-1001-12  
TM-1001-22

Winona USA  
Winona USA

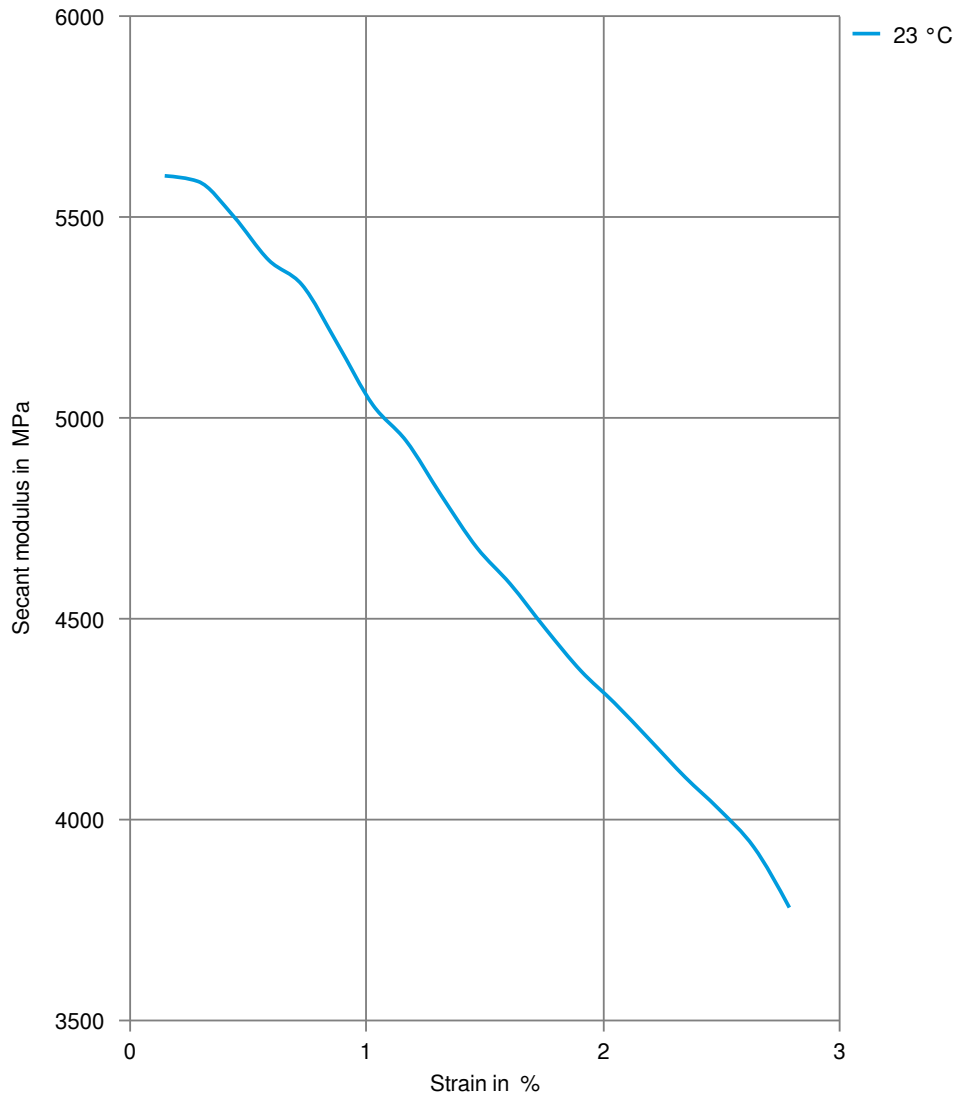
### Stress-strain



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### Secant modulus-strain



Printed: 2025-05-30

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Revised: 2024-01-23 Source: Celanese Materials Database

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