

# CELSTRAN® PP-GF30-0403 P10

## CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30weight percent long glass fibers. Natural. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 11 mm long. Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly. The very isotropic shrinkage in the molded parts minimizes the warpage. Complex parts can be manufactured with high reproducibility by injection molding. Application field: Functional/structural parts for automotive

### Product information

Resin Identification	PP-LGF30	ISO 1043
Part Marking Code	>PP-LGF30<	ISO 11469

### Typical mechanical properties

Tensile modulus	7000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	115 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3 %	ISO 527-1/-2
Flexural modulus	6600 MPa	ISO 178
Flexural strength	200 MPa	ISO 178
Charpy impact strength, 23°C	64 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	48 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	34 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	32 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.35 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	158 °C	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	134 °C	ISO 75-1/-2

### Physical/Other properties

Density	1110 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

### Additional information

Processing Notes

#### 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.

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### Storage

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

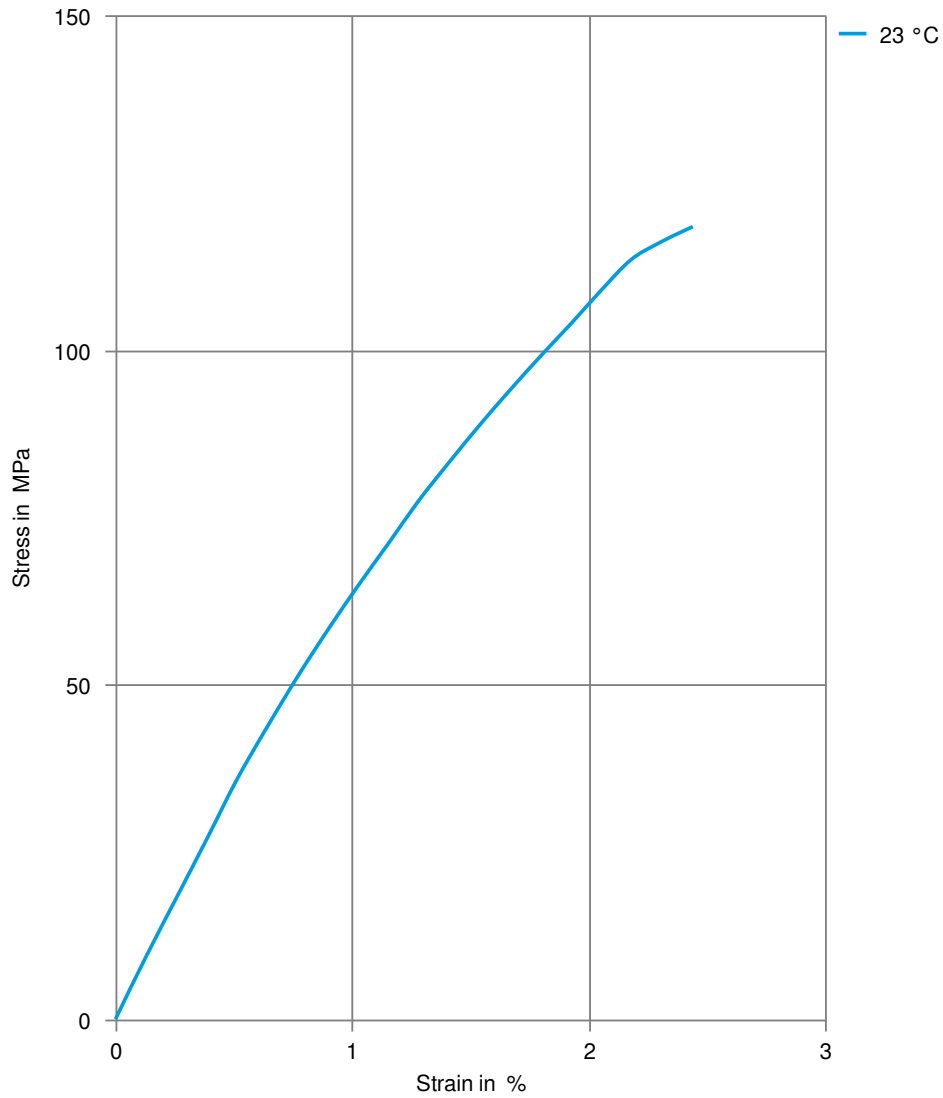
### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN09-GF027	Natural
Bosch	N28 BN09-GF027	Black
Bosch	N28 BN09-GF027	Blk, Winona
Bosch	N28 BN09-GF027	Nat, Winona
Stellantis	MS-DB-21 / PP.LGF30.6500F.21I.HS	CPN3778 BLACK
Stellantis - Chrysler	MS-DB-21 / CPN-3778	Black

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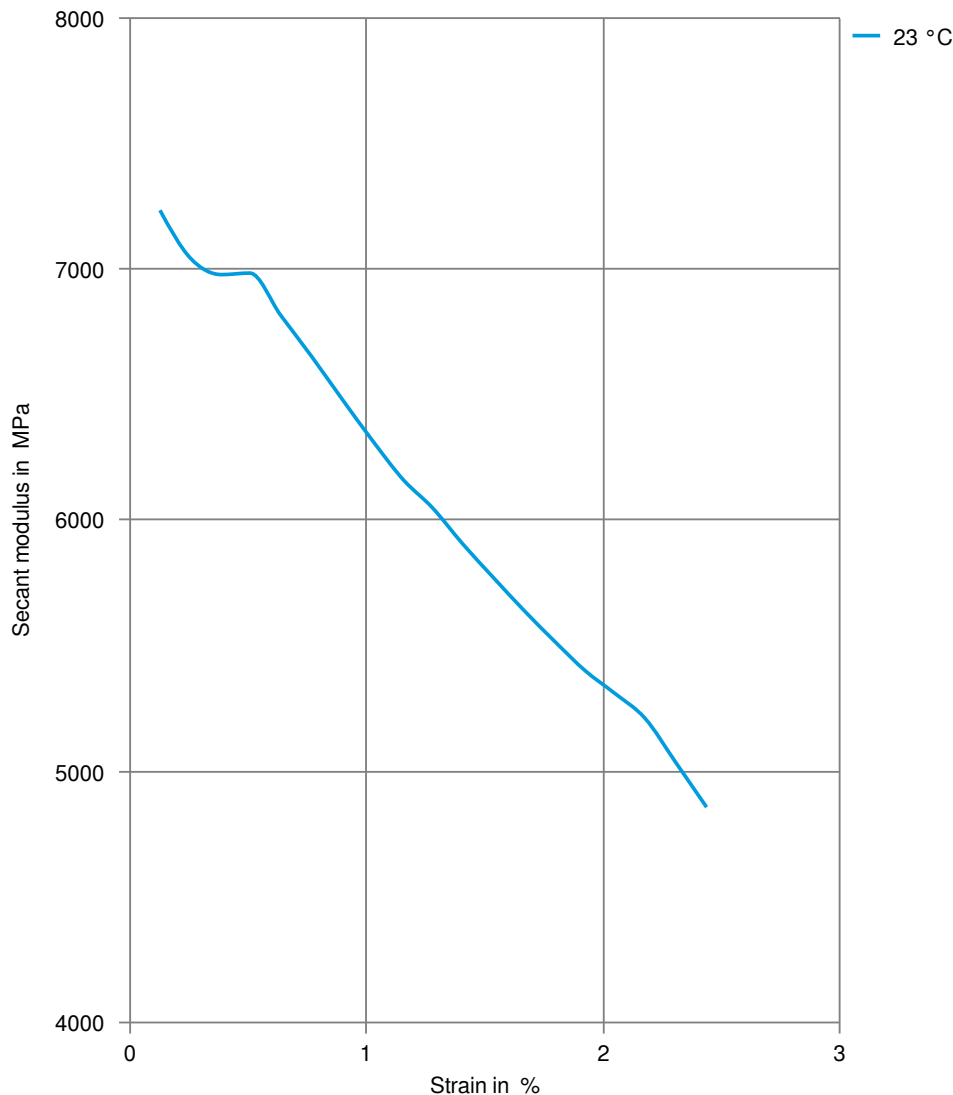
## Stress-strain



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## Secant modulus-strain



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