



## CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30weight percent long glass fibers. Black. 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**

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Resin Identification	PP-LGF30		ISO 1043
Part Marking Code	>PP-LGF30<		ISO 11469
ŭ			
Rheological properties			
Viscosity number	119	cm <sup>3</sup> /g	ISO 307, 1628
Typical mechanical properties			
Tensile modulus	7000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	110	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2	%	ISO 527-1/-2
Flexural modulus	7000	MPa	ISO 178
Flexural strength	180	MPa	ISO 178
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	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		ISO 75-1/-2
Temperature of deflection under load, 8 MPa	122		ISO 75-1/-2
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### Flammability

Burning Behav. at thickness h Thickness tested	HB <sup>[1]</sup> class 2 mm	IEC 60695-11-10 IEC 60695-11-10
[1]: 12 mm/min		

## Physical/Other properties

Density	1110 kg/m³	ISO 1183
= <b>,</b>		

### Injection

Back pressure	3	MPa
Ejection temperature	112	°C

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





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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.

Storage

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

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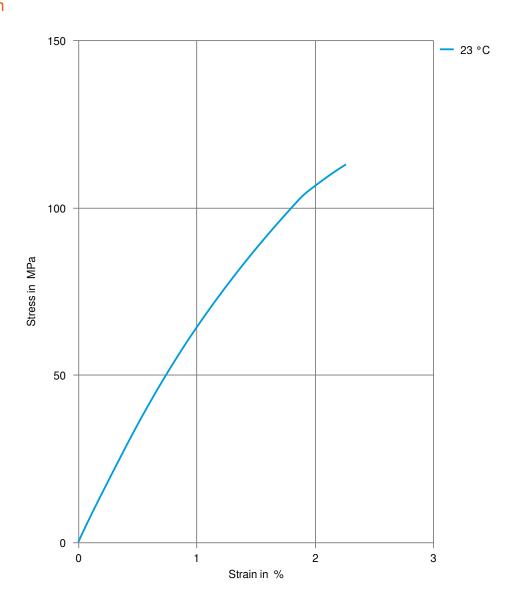
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## CELSTRAN® Long Fibre

### Stress-strain



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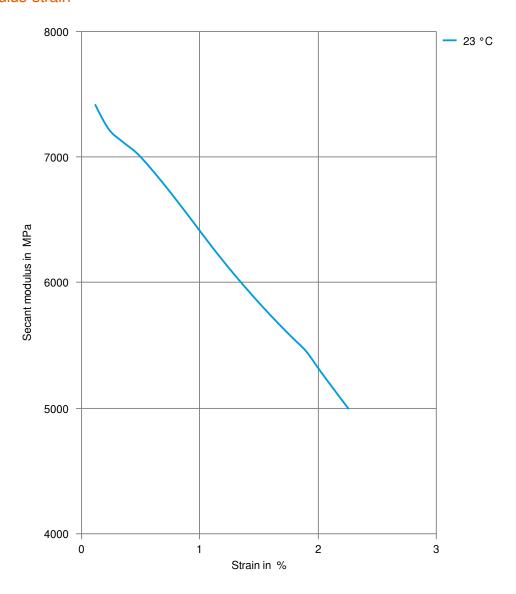
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### **CELSTRAN®** Long Fibre

#### Secant modulus-strain



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