



CELSTRAN® PP-GF30-0405 P10/10

CELSTRAN® Long Fibre

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

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

Typical mechanical properties

Tensile modulus	7000 M	MРа	ISO 527-1/-2
Tensile stress at break, 5mm/min	110 M	MРа	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2 %	%	ISO 527-1/-2
Flexural modulus	7000 M	MРа	ISO 178
Flexural strength	180 M	MРа	ISO 178
Charpy impact strength, 23°C	55 k	دJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	45 k	κJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	24 k	ιJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	22 k	دJ/m²	ISO 179/1eA
Poisson's ratio	0.35 ^[C]		

[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	122 °C	ISO 75-1/-2

Physical/Other properties

Density 1110 kg/m³ ISO 1183

Injection

Back pressure 3 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics U.V. stabilised or stable to weather

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

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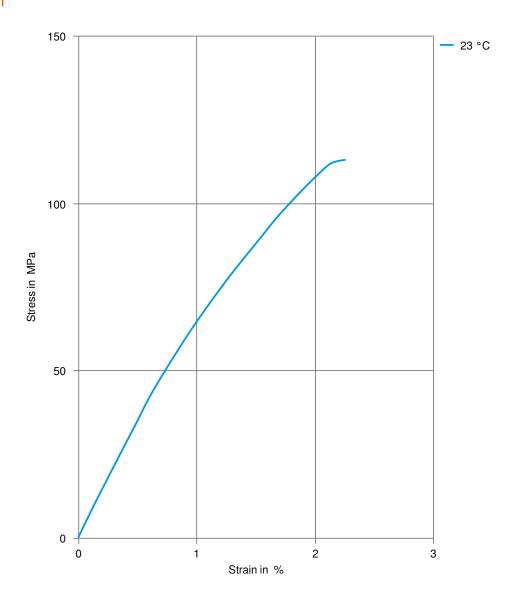
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storage, drying is required.

Storage

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

Stress-strain



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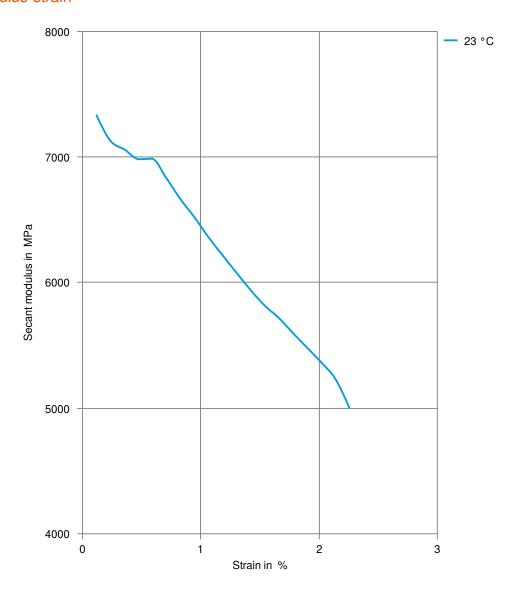




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Secant modulus-strain



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