CELSTRAN® PP-GF30-0403 ECO-B 352 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.
Celstran ECO-B is a long fibre reinforced thermoplastic (LFRT) with the same properties and performance as standard grades, but produced with sustainability in mind. Using a mass-balance approach, 30% of biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process will be audited and certified according to the ISCC mass balance approach.

Product information

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

Typical mechanical properties

Tensile modulus	1.02E6	psi	ISO 527-1/-2

Physical/Other properties

Density	0.0404	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	194	°F
Drying Time, Dehumidified Dryer	2 - 3	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	482	°F
Min. melt temperature	446	°F
Max. melt temperature	518	°F
Max. screw tangential speed	≤0.1	m/s
Mold Temperature Optimum	122	°F
Min. mold temperature	86	°F
Max. mold temperature	158	°F
Back pressure	435	psi

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat
Sustainability	Bio-Content

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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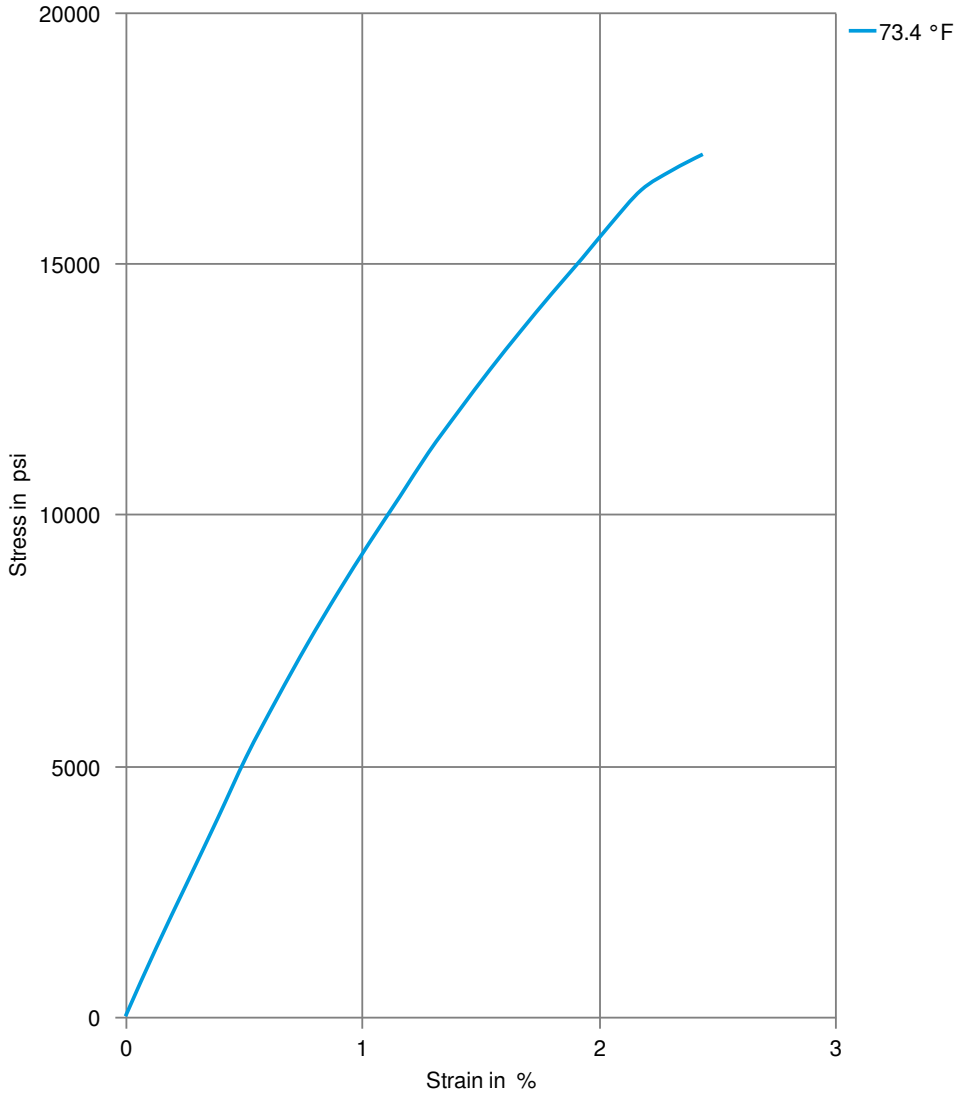
CELSTRAN® Long Fibre

storage, drying is required.

Storage

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

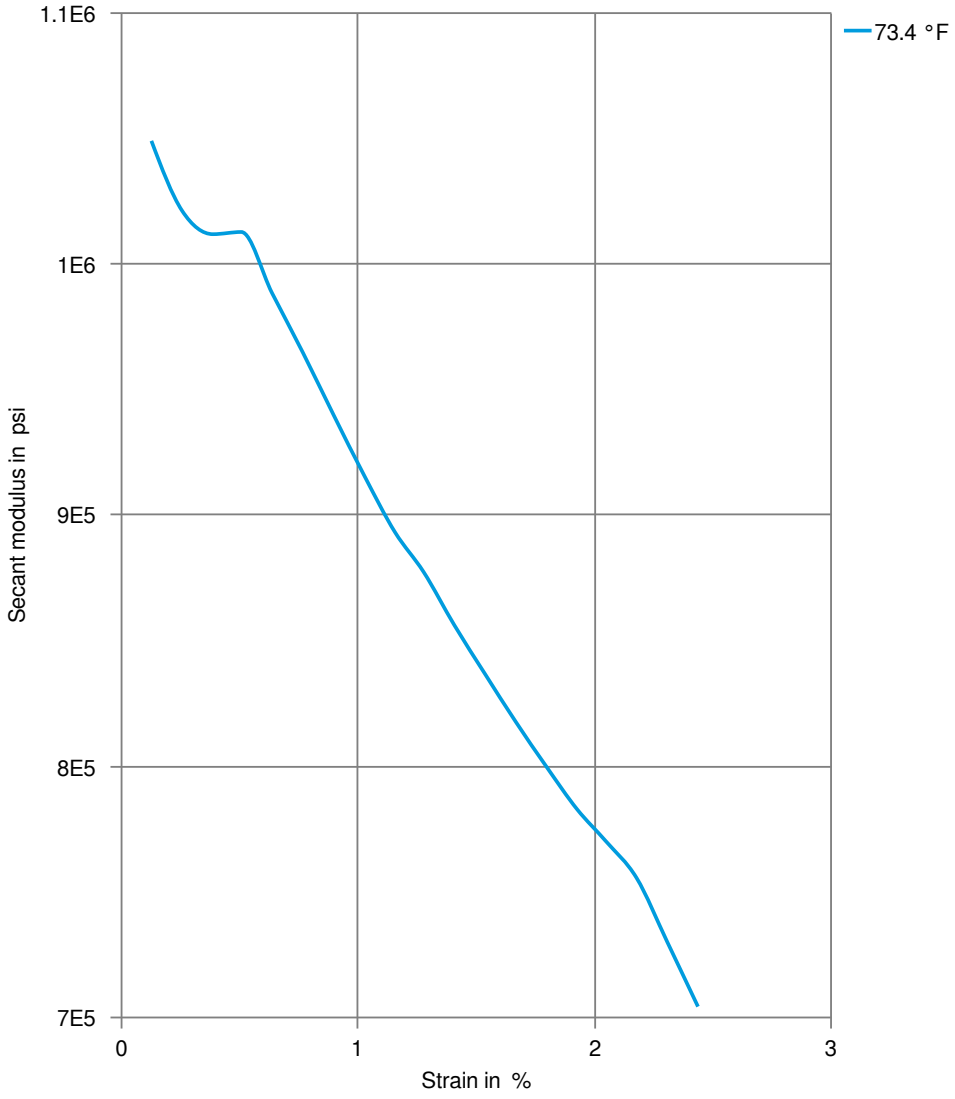
Stress-strain



CELSTRAN® PP-GF30-0403 ECO-B 352 P10

CELSTRAN® Long Fibre

Secant modulus-strain



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