CELSTRAN® PP-GF30-02 AD 3002

CELSTRAN® Long Fibre

30% long strand glass fiber reinforced polypropylene. Black.

Product information

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

Rheological properties

Molding shrinkage range, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.3	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	986000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	16000	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2	%	ISO 527-1/-2
Flexural modulus	957000	psi	ISO 178
Flexural strength	25800	psi	ISO 178
Charpy notched impact strength, 23 °C	11.4	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23 °C	10.2	ftlb/in²	ISO 180/1A
Izod impact strength, -40 °C	12.9	ftlb/in²	ISO 180/1U

Thermal properties

Temperature of deflection under load, 1.8 MPa	315	°F	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.0394	in	IEC 60695-11-10

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
Ejection temperature	241	°F

Revised: 2025-07-10 Source: Celanese Materials Database

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Characteristics

Processing	Injection Molding

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.

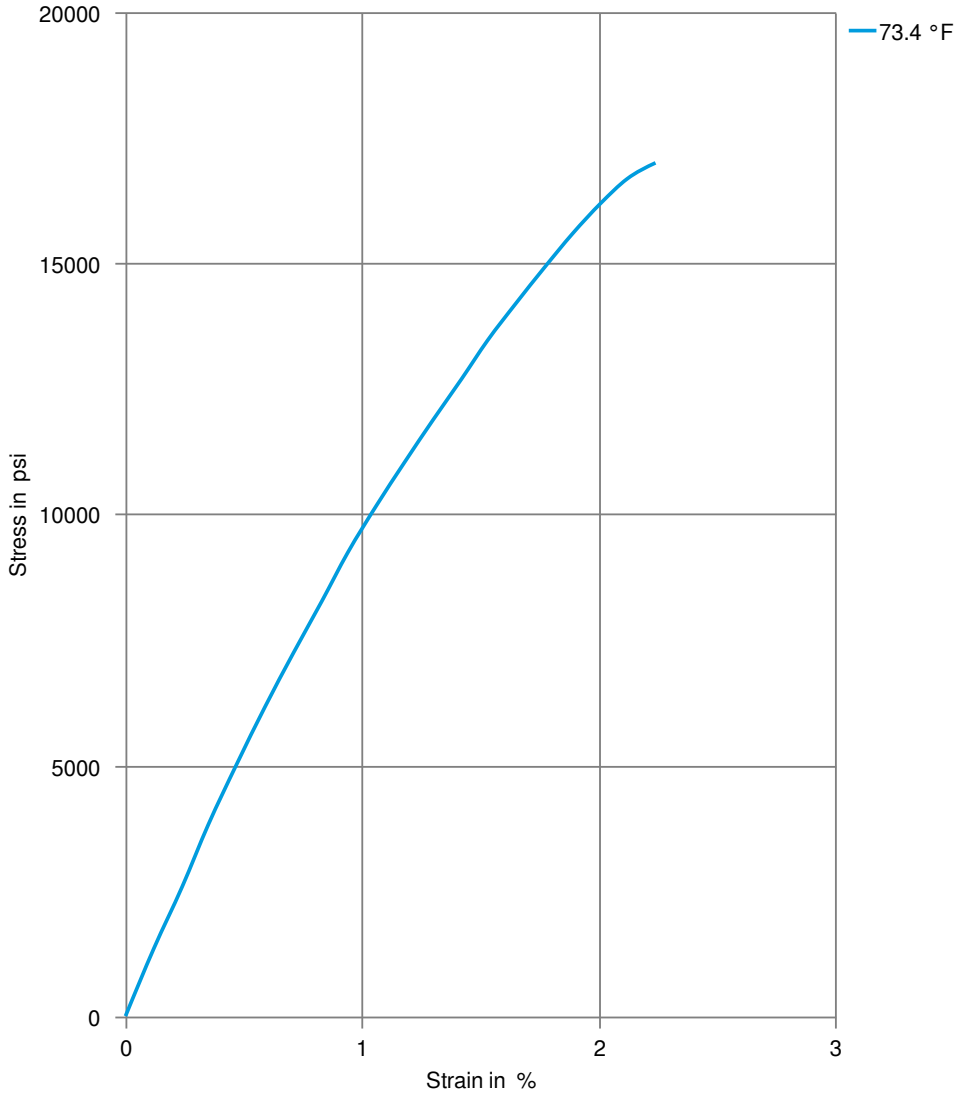
Storage

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

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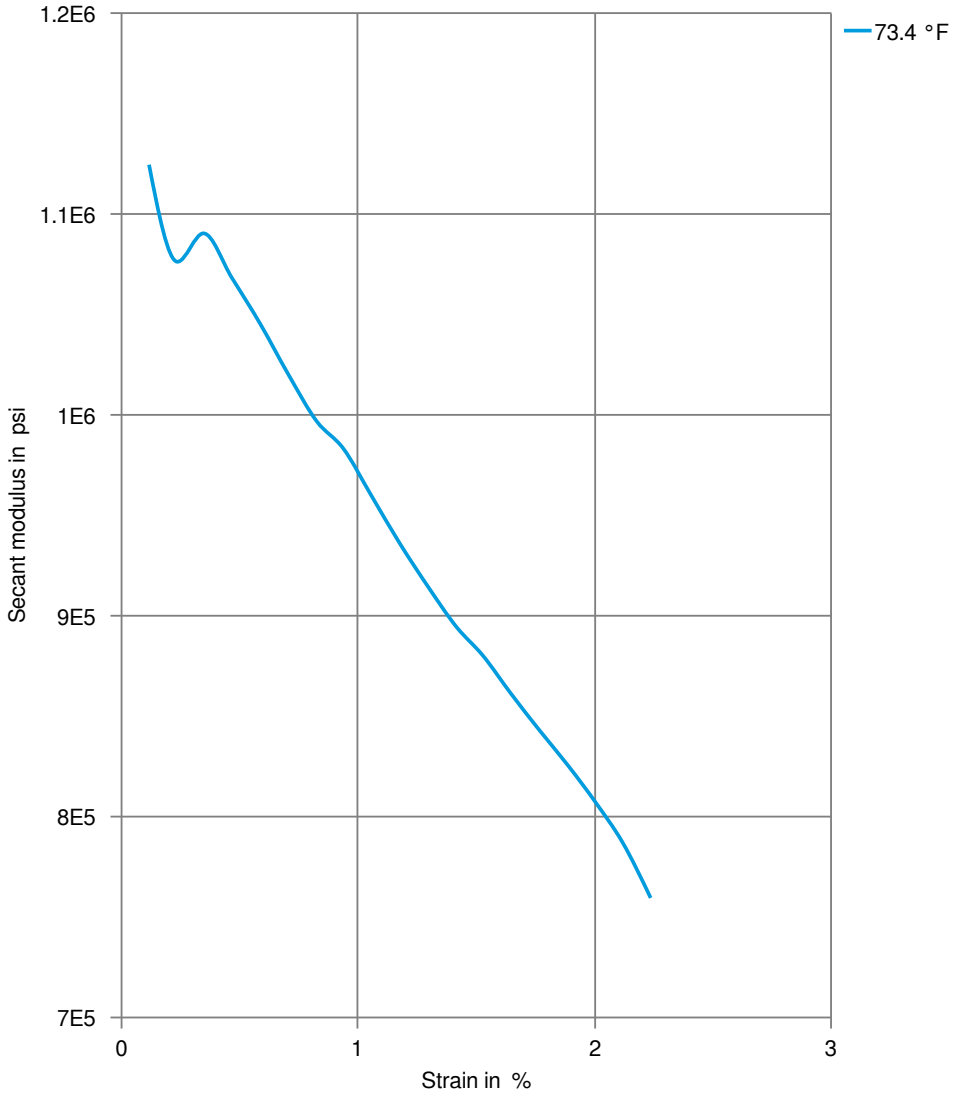
Stress-strain



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Secant modulus-strain



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