CELSTRAN® PP-GF50-02-BLACK

CELSTRAN® Long Fibre

50% long strand glass fiber chemically coupled polypropylene, Black

Product information

Resin Identification	PP-LGF50	ISO 1043
Part Marking Code	>PP-LGF50<	ISO 11469

Typical mechanical properties

Tensile modulus	1.62E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	18100	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	1.65E6	psi	ISO 178
Flexural strength	31200	psi	ISO 178
Charpy impact strength, 23°C	25.7	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30°C	24.7	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	12.4	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	12.4	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	14.2	ftlb/in²	ISO 180/1A

Thermal properties

Temperature of deflection under load, 1.8 MPa	316	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0484	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	194	°F
Drying Time, Dehumidified Dryer	2	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	518	°F
Min. melt temperature	482	°F
Max. melt temperature	554	°F
Max. screw tangential speed	≤0.1	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°F
Back pressure	435	psi
Ejection temperature	243	°F

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

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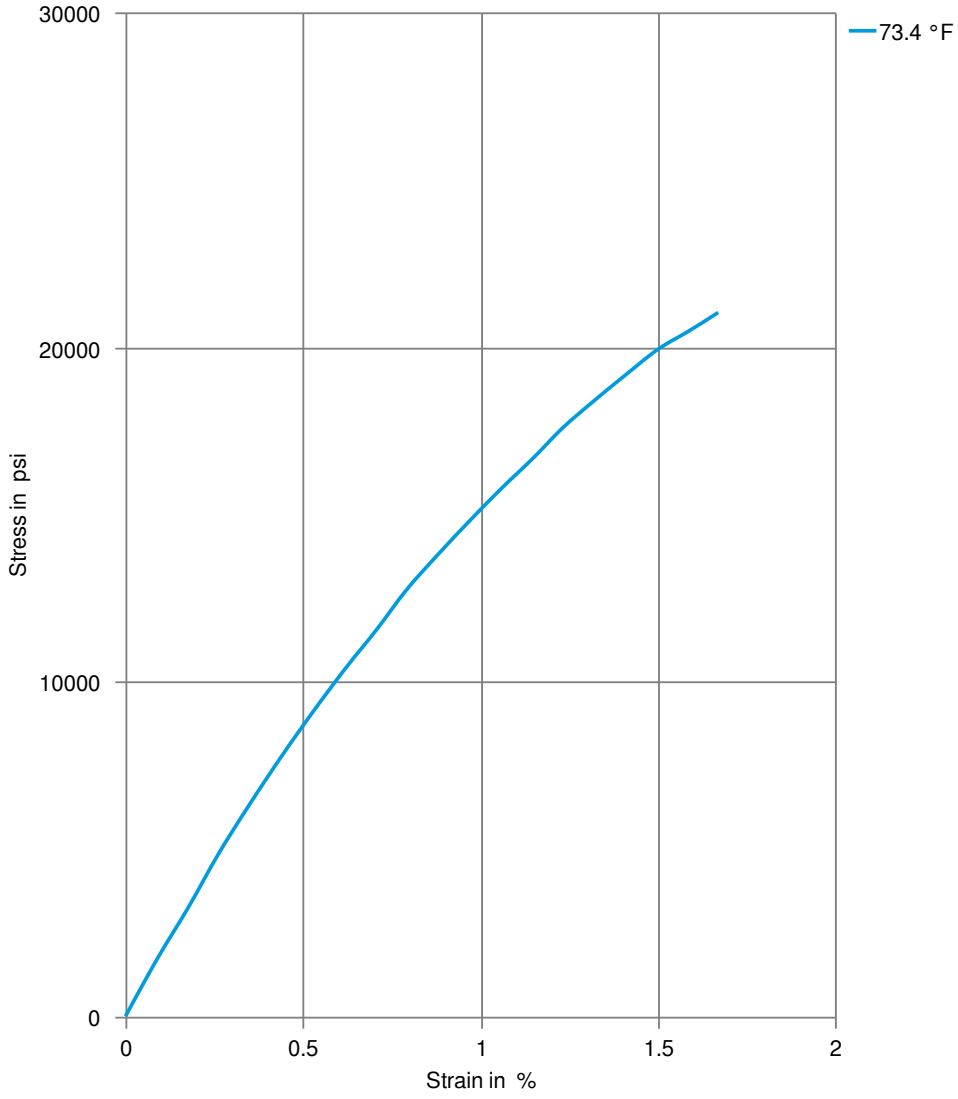
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storage, drying is required.

Storage

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

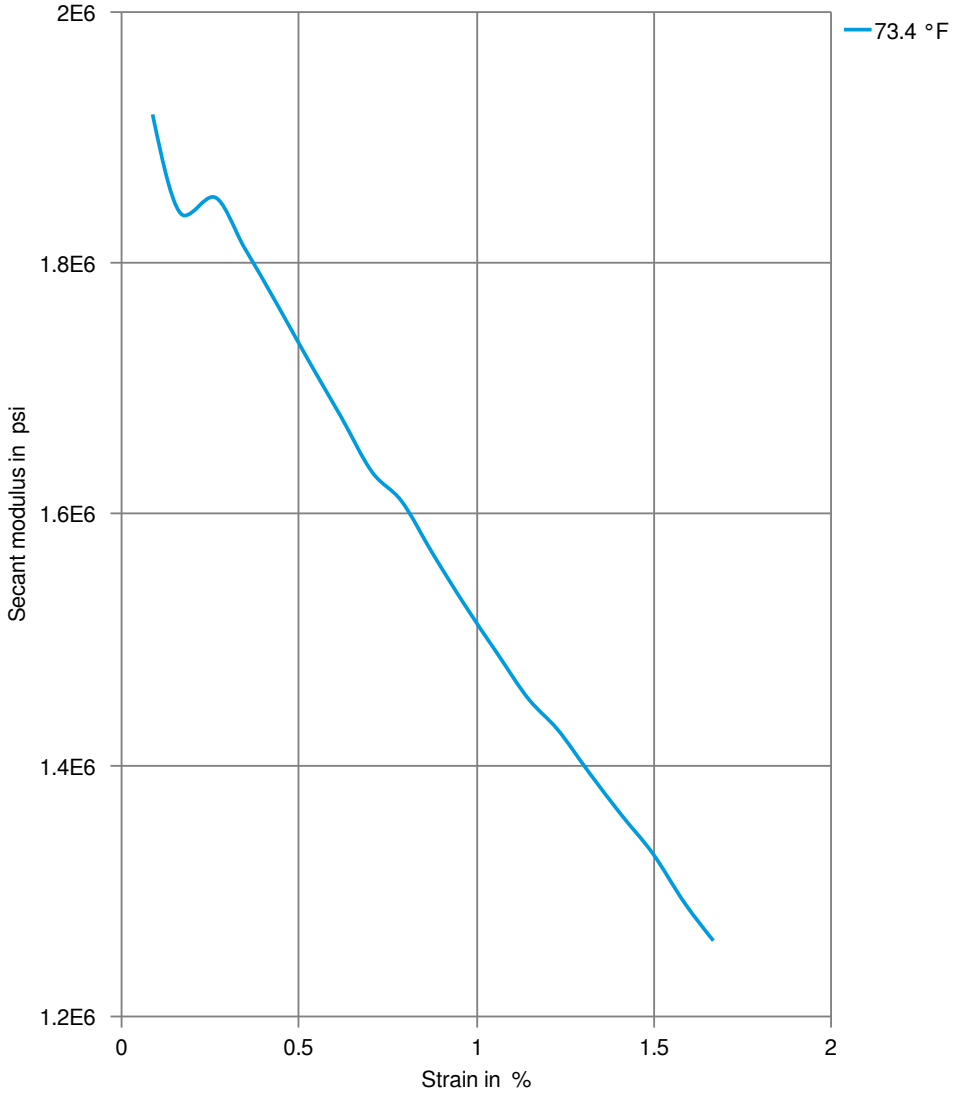
Stress-strain



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Secant modulus-strain



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