CELSTRAN® PP-GF60-02 AD3002 BLACK

CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene with 60 weight percent fiber content, long glass fibers reinforced. 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-LGF60	ISO 1043
Part Marking Code	>PP-LGF60<	ISO 11469

Typical mechanical properties

Tensile modulus	2.03E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	22500	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.6	%	ISO 527-1/-2
Flexural modulus	2.18E6	psi	ISO 178
Flexural strength	40600	psi	ISO 178
Charpy notched impact strength, 23°C	15.7	ftlb/in²	ISO 179/1eA

Physical/Other properties

Density	0.0516	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	194	°F
Drying Time, Dehumidified Dryer	2	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	536	°F
Min. melt temperature	500	°F
Max. melt temperature	572	°F
Max. screw tangential speed	≤0.1	m/s
Mold Temperature Optimum	176	°F
Min. mold temperature	140	°F
Max. mold temperature	212	°F
Back pressure	435	psi

Characteristics

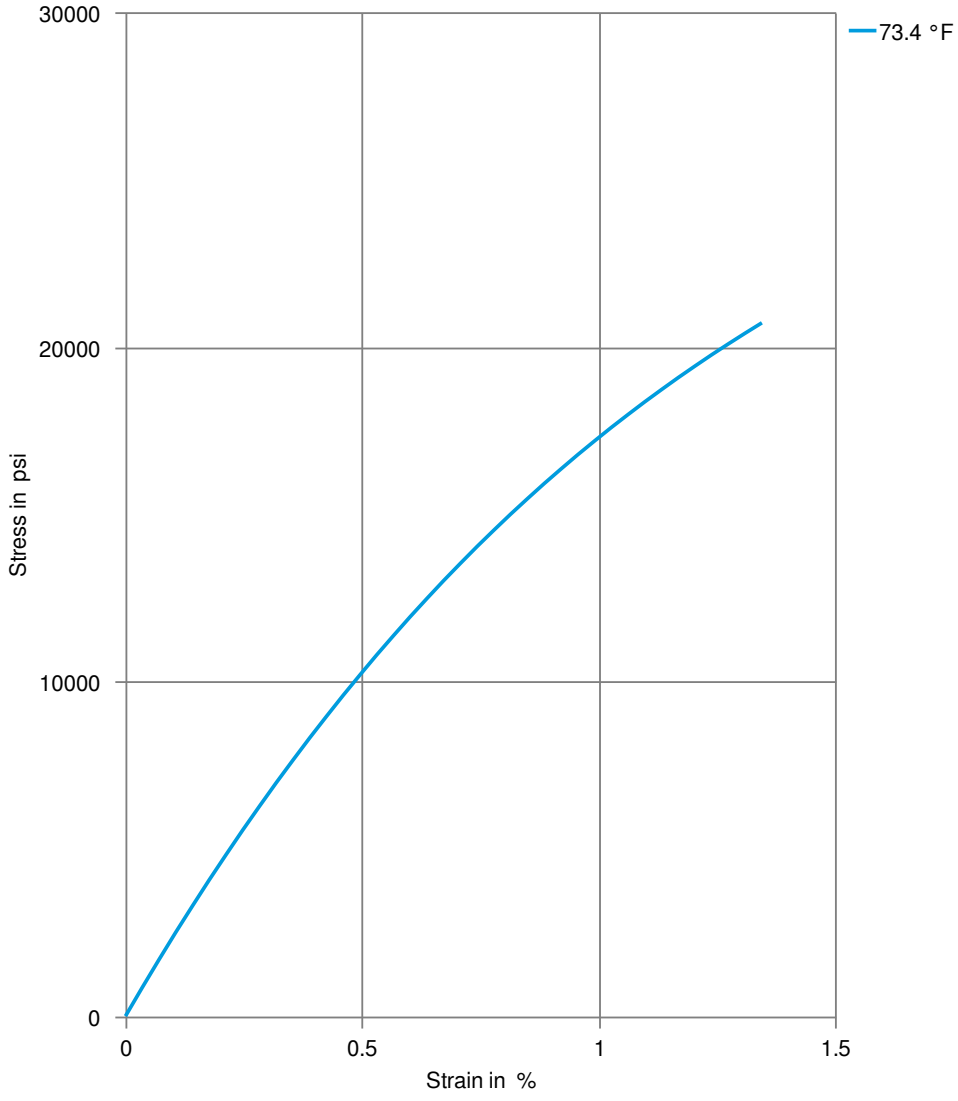
Processing	Injection Molding

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

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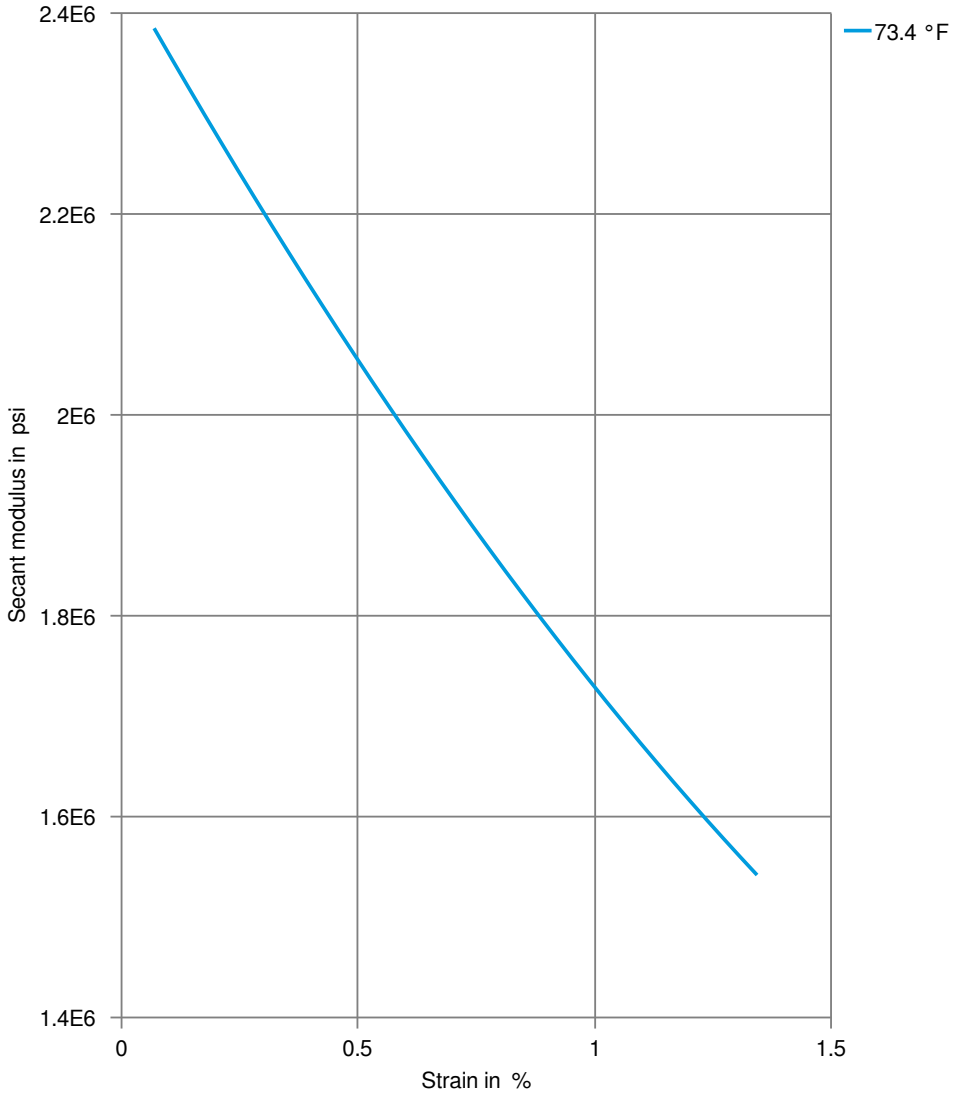
Stress-strain



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Secant modulus-strain



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