CELSTRAN® PP-GF40-02 AF3001 NATURAL

CELSTRAN® Long Fibre

Celstran® PP-GF40-02 is a 40% long glass fiber filled Polypropylene. This material imparts excellent impact and modulus properties that exceed that of short fiber polypropylene products.

Product information

Resin Identification	PP-LGF40	ISO 1043
Part Marking Code	>PP-LGF40<	ISO 11469

Typical mechanical properties

Tensile modulus	1.35E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	21600	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3	%	ISO 527-1/-2
Flexural modulus	1.31E6	psi	ISO 178
Flexural strength	35500	psi	ISO 178
Charpy notched impact strength, 23 °C	21.9	ftlb/in²	ISO 179/1eA

Physical/Other properties

Density	0.0437	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	140	°F
Min. mold temperature	104	°F
Max. mold temperature	158	°F

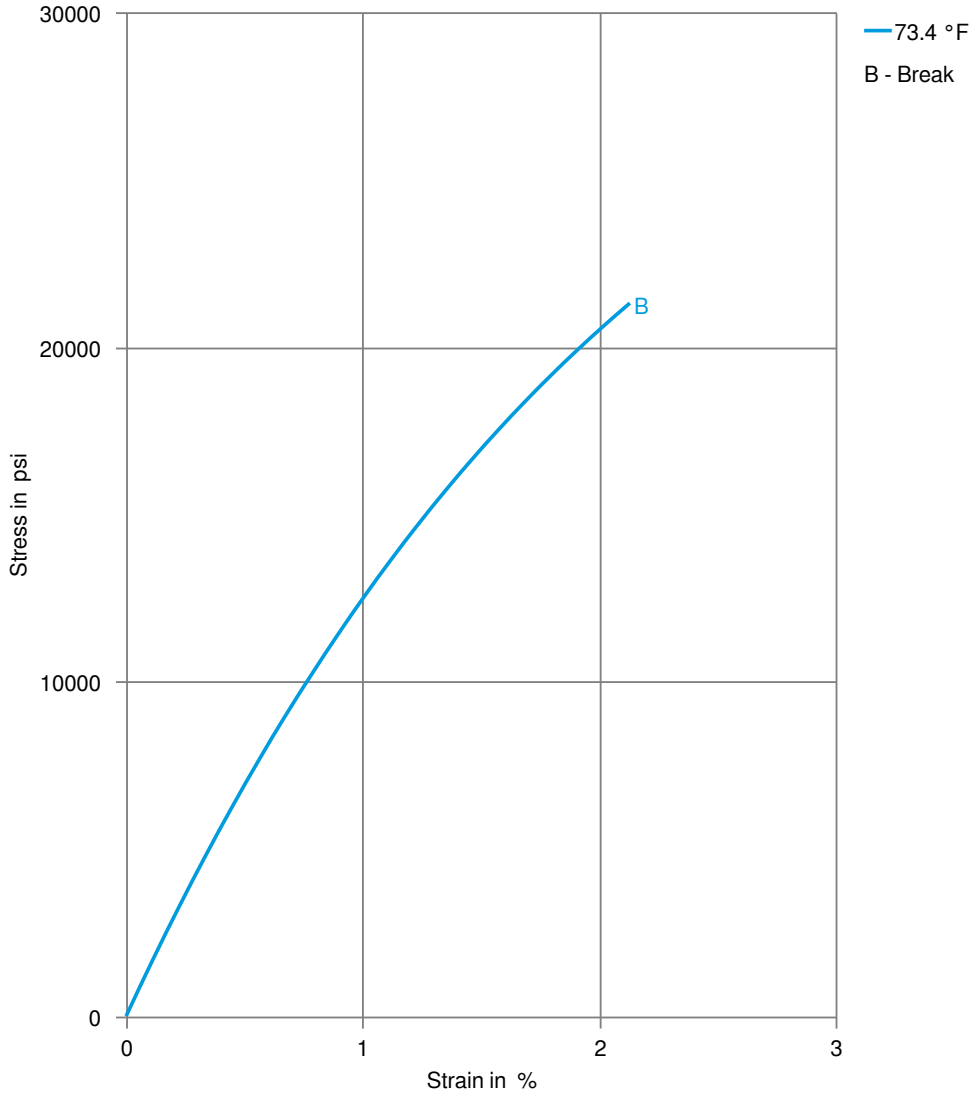
Characteristics

Processing	Injection Molding

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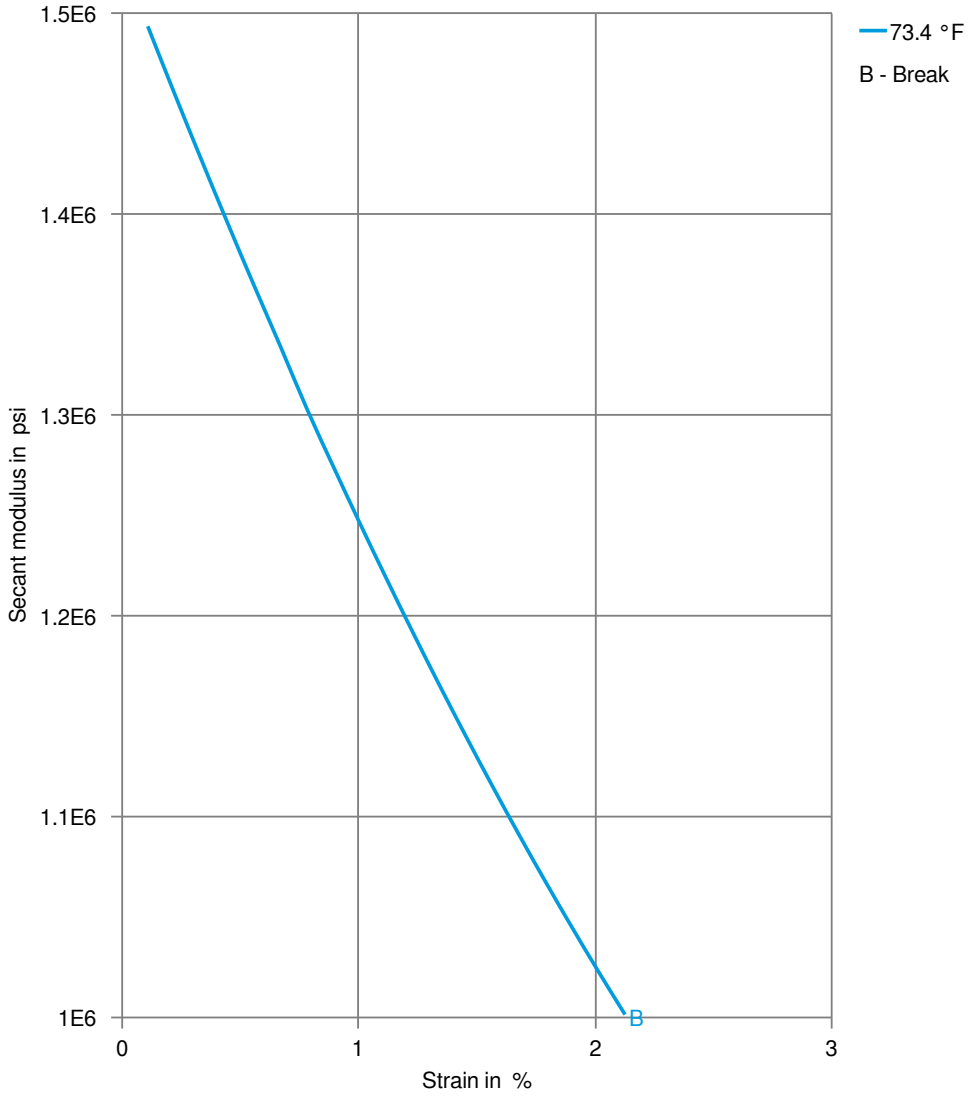
Stress-strain



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Secant modulus-strain



Revised: 2026-03-10 Source: Celanese Materials Database

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