CELSTRAN® PP-GF30-0553 XLE BLACK

CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30 weight percent long glass fibers. Impact modified copolymer, low emission. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 10 mm long. Low odor grade, not suggest to use mold release or lubricants in molding.

Product information

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

Rheological properties

Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	921000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	14800	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5	%	ISO 527-1/-2
Flexural modulus	950000	psi	ISO 178
Flexural strength	25400	psi	ISO 178
Charpy impact strength, 23°C	33.3	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.9	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	12.8	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	327	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	320	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0397	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 - 0.2	m/s
Mold Temperature Optimum	122	°F
Min. mold temperature	86	°F
Max. mold temperature	158	°F
Back pressure	435	psi

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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Li Auto	Q/LiA5310050	2021 (V2)

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, Low emissions

Additional information

Processing Notes

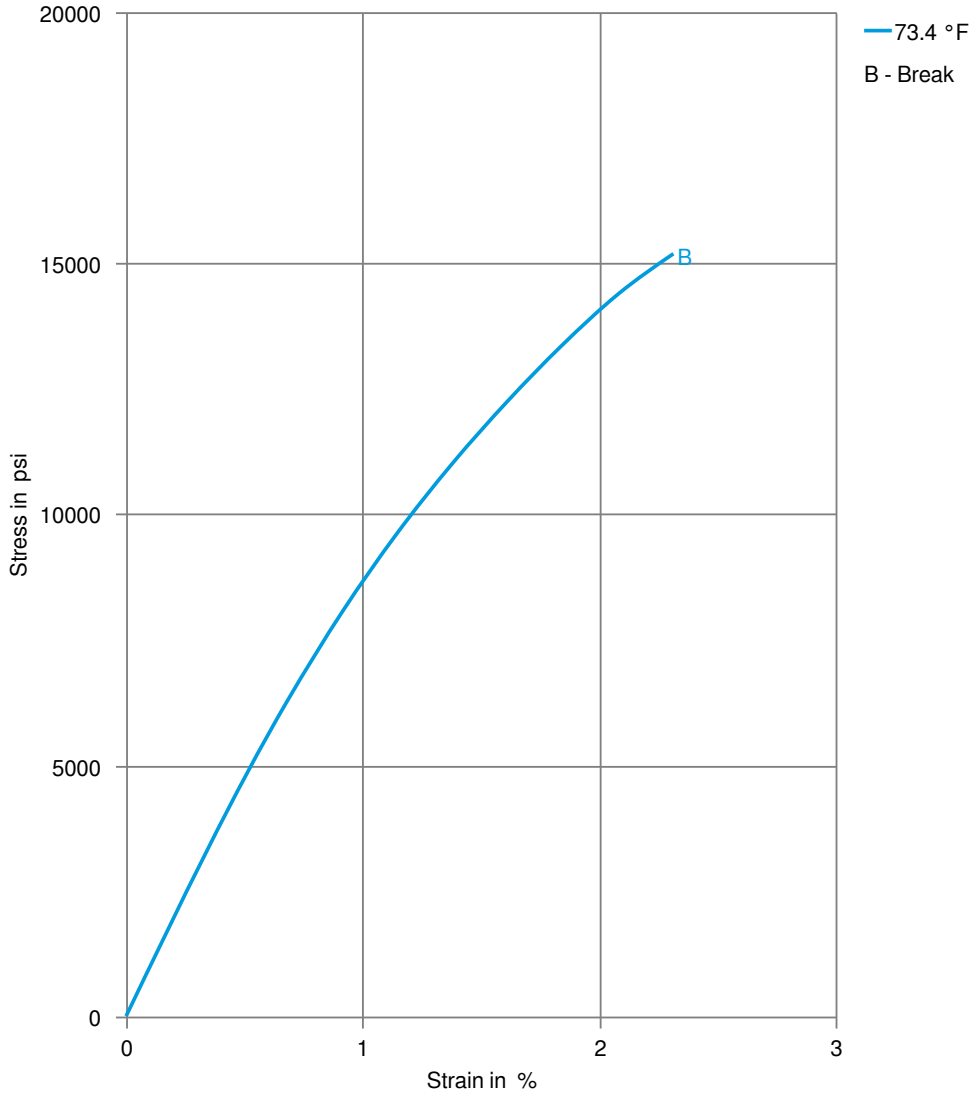
Pre-Drying

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.

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Stress-strain

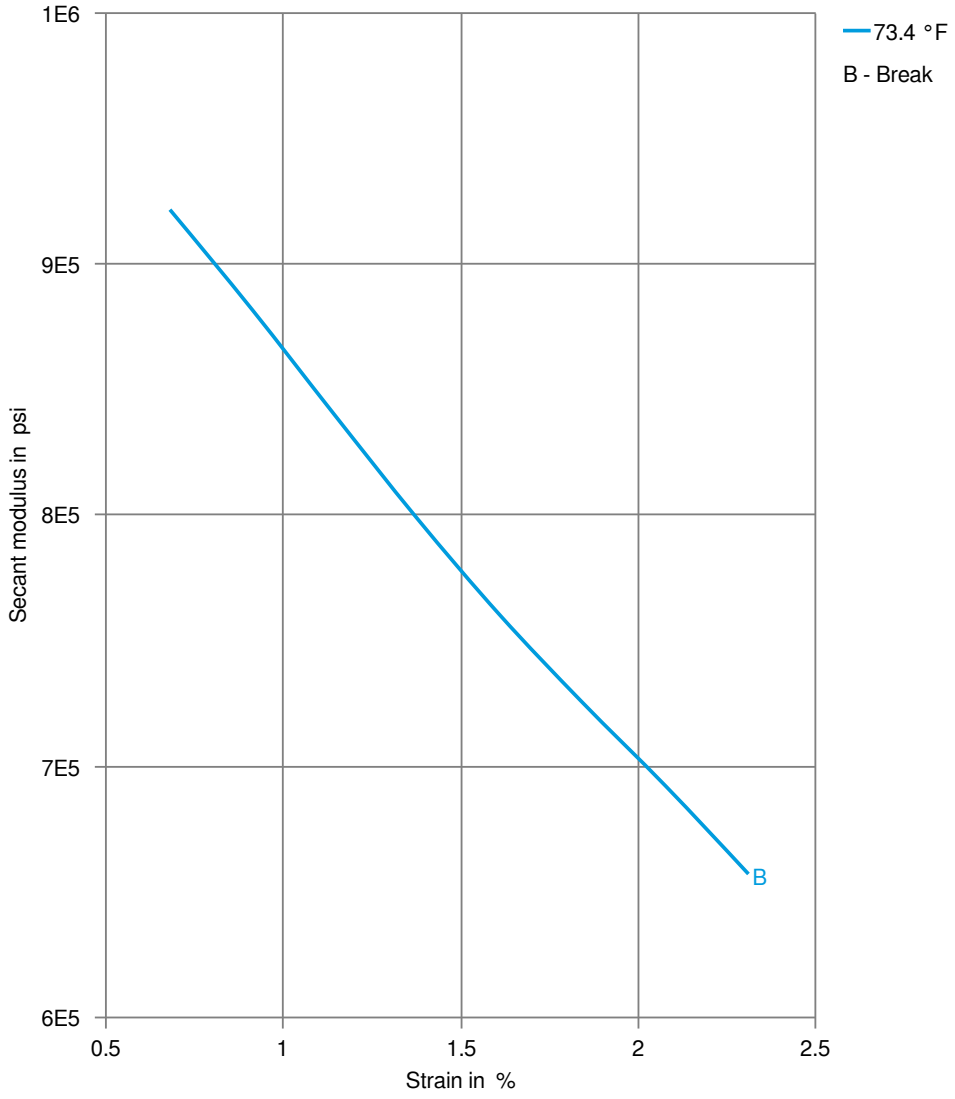


Revised: 2025-07-11 Source: Celanese Materials Database

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Secant modulus-strain



Revised: 2025-07-11 Source: Celanese Materials Database

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