CELSTRAN® PP-GF40-20 AD3004 BLACK

CELSTRAN® Long Fibre

40% long strand glass fiber reinforced polypropylene, higher tensile and impact strength, Black.

Product information

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

Typical mechanical properties

Tensile modulus	1.45E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	21800	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.1	%	ISO 527-1/-2
Flexural modulus	1.26E6	psi	ISO 178
Flexural strength	29000	psi	ISO 178
Charpy notched impact strength, 23 °C	16.6	ftlb/in²	ISO 179/1eA

Thermal properties

Temperature of deflection under load, 1.8 MPa	322	°F	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	300	°F	ISO 75-1/-2

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
Back pressure	435	psi
Ejection temperature	241	°F

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Ford	WSS-M4D865-B3	
Stellantis - Chrysler	MS-DB-21 / CPN-5346	Technical Black

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified

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

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Additional information

Processing Notes

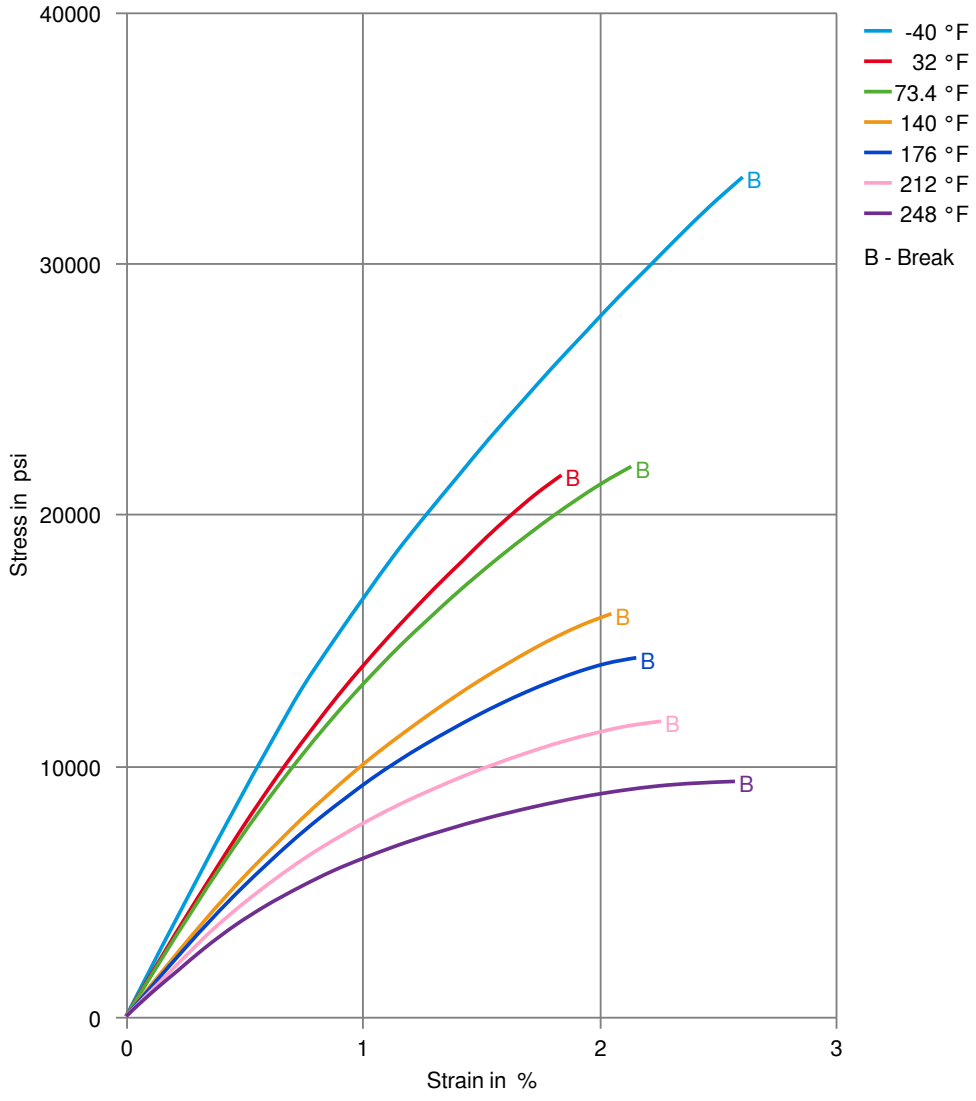
Pre-Drying

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.

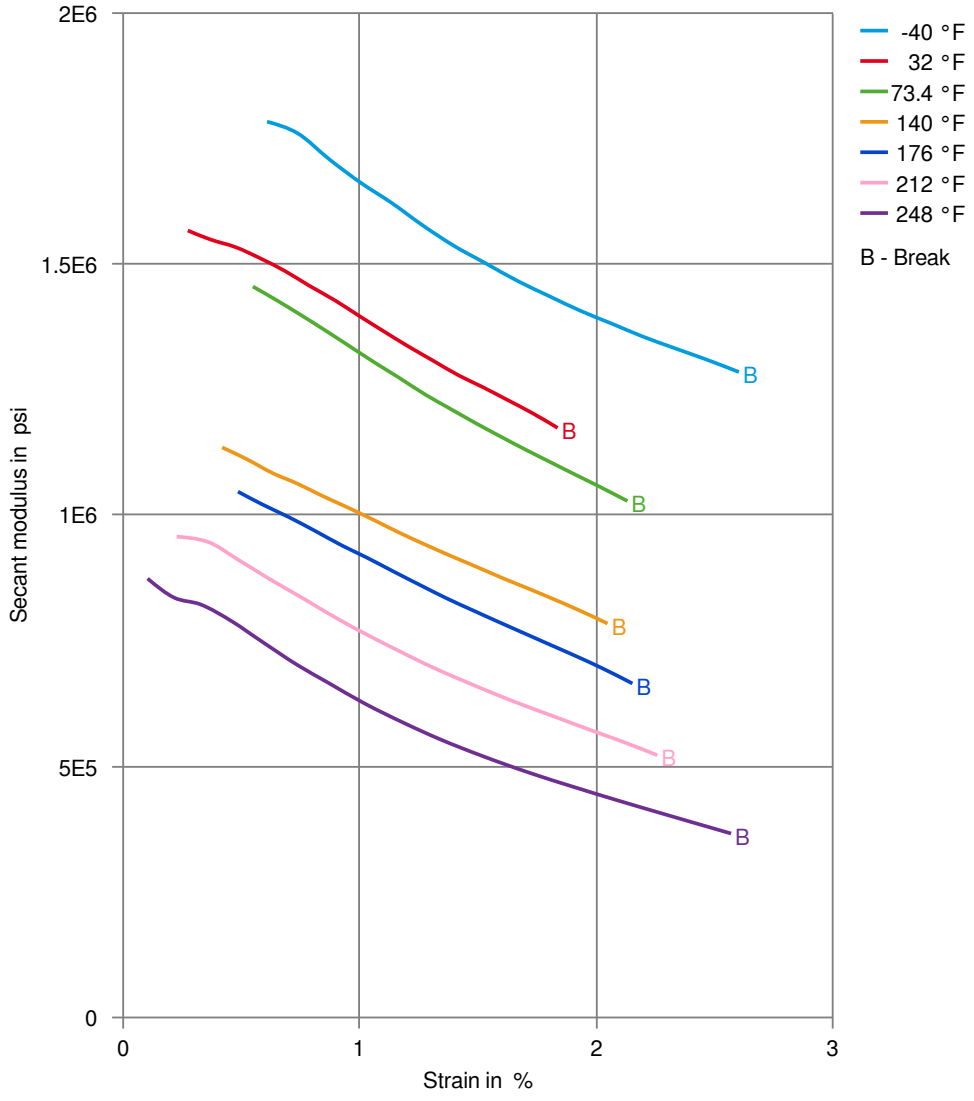
Stress-strain



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Secant modulus-strain



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