CELSTRAN® PP-GF40-02 AD3019 BLACK

CELSTRAN® Long Fibre

40% long strand glass fiber reinforced polypropylene, black. UV resistant.

Product information

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

Rheological properties

Molding shrinkage range, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.2 - 0.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.29E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	18900	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2	%	ISO 527-1/-2
Flexural modulus	1.34E6	psi	ISO 178
Flexural strength	29000	psi	ISO 178
Charpy impact strength, 23°C	30.9	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.9	ftlb/in²	ISO 179/1eA

Thermal properties

Temperature of deflection under load, 1.8 MPa	316	°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

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
General Motors	GMW16272	
Stellantis - Chrysler	MS-DB-21 / CPN-5307	Black

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

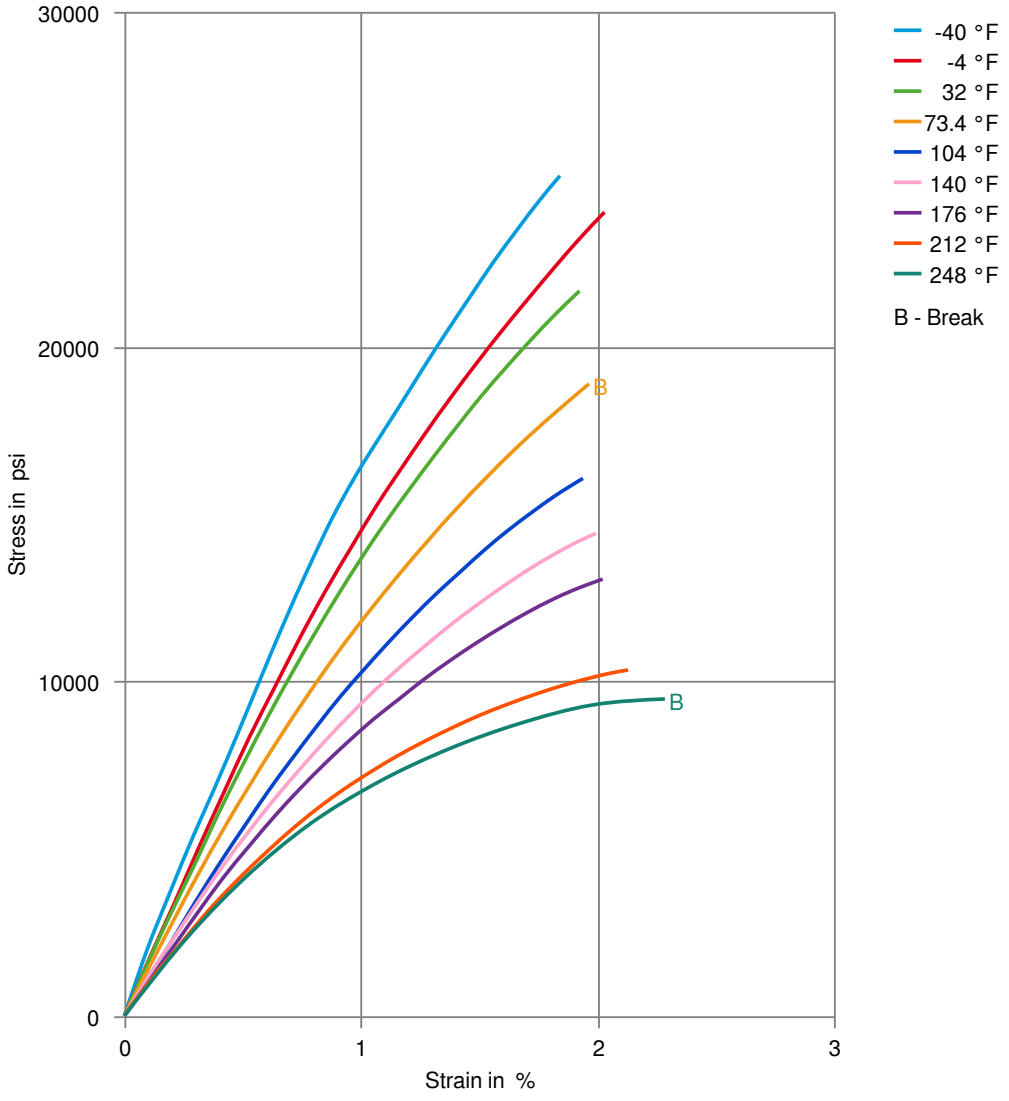
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Characteristics

Processing	Injection Molding
Special characteristics	U.V. stabilized or stable to weather

Stress-strain

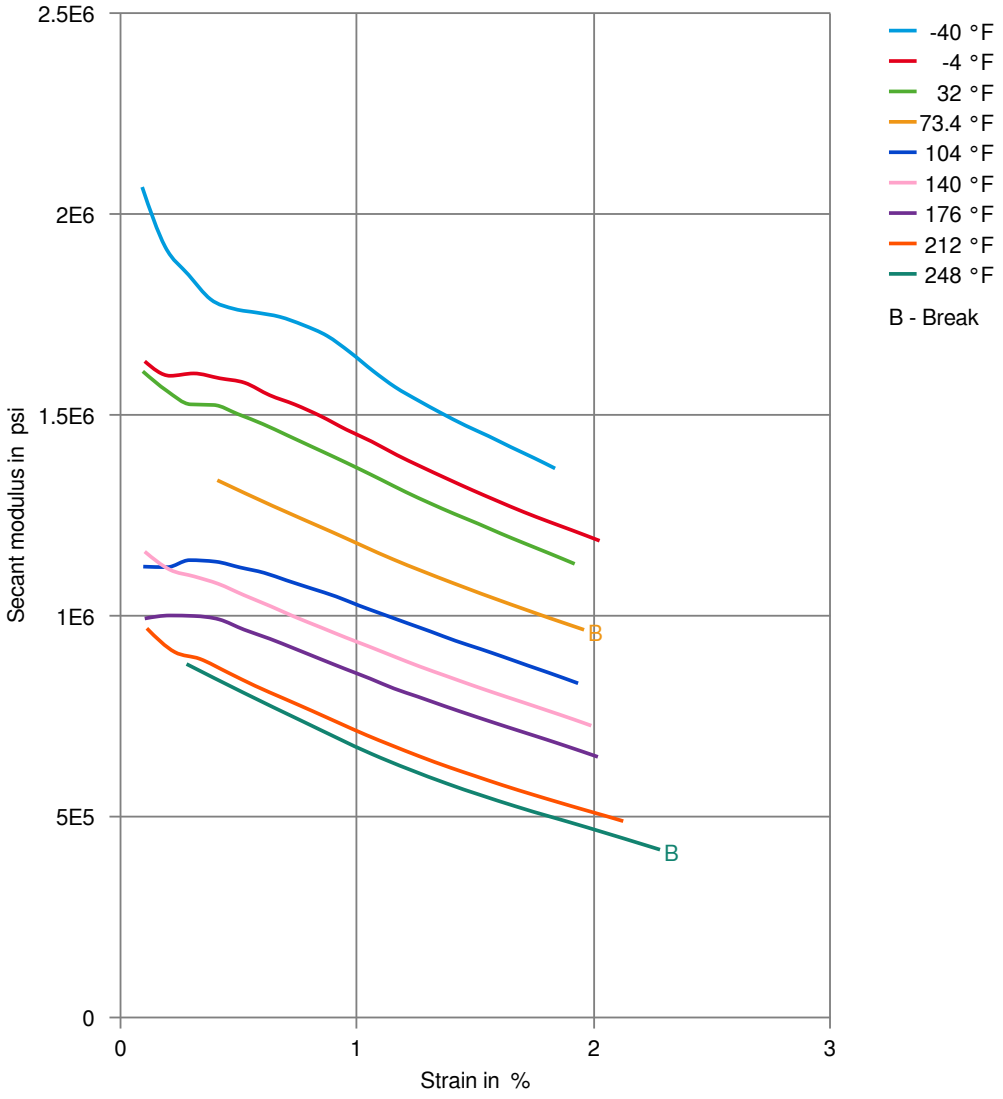


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Secant modulus-strain



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