CELSTRAN® PP-GF20-02 BLACK

CELSTRAN® Long Fibre

Material Code according to ISO 104-1: PP Polypropylene homopolymer reinforced with 20 weight percent long glass fibers. Black. The fibers are chemically coupled to the polypropylene matrix. Then pellets are cylindrical and normally as well as the embedded fibers 10mm long. This material imparts excellent impact and modulus properties that exceed that short fiber polypropylene.

Product information

Resin Identification	PP-LGF20		ISO 1043
Part Marking Code	>PP-LGF20<		ISO 11469

Typical mechanical properties

Tensile modulus	725000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	12500	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.4	%	ISO 527-1/-2
Flexural modulus	711000	psi	ISO 178
Flexural strength	19600	psi	ISO 178
Charpy impact strength, 23 °C	21.4	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30 °C	10.5	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	6.66	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30 °C	7.14	ftlb/in²	ISO 179/1eA
Poisson's ratio	0.35		

Thermal properties

Melting temperature, 10 °C/min	325	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	316	°F	ISO 75-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	0.591	in/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	0.0372	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	446	°F
Min. melt temperature	392	°F
Max. melt temperature	464	°F
Max. screw tangential speed	≤0.1	m/s
Mold Temperature Optimum	122	°F
Min. mold temperature	86	°F
Max. mold temperature	158	°F
Back pressure	435	psi
Ejection temperature	241	°F

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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	2011-01 (AD3002 Black)
Ford	WSS-M4D865-B5	
Ford	WSS-M4D865-B7	
Li Auto	Q/LiA5310050	2021 (V2)
Stellantis	MS-DB-21 / PP-H.LGF20.5000F.15C	CPN4731 BLACK, CPN 5109 NAT, CPN5104 COLOR MATCH
Stellantis - Chrysler	MS-DB-21 / CPN-4731	Black
Stellantis - Chrysler	MS-DB-21 / CPN-5104	100% Color Match

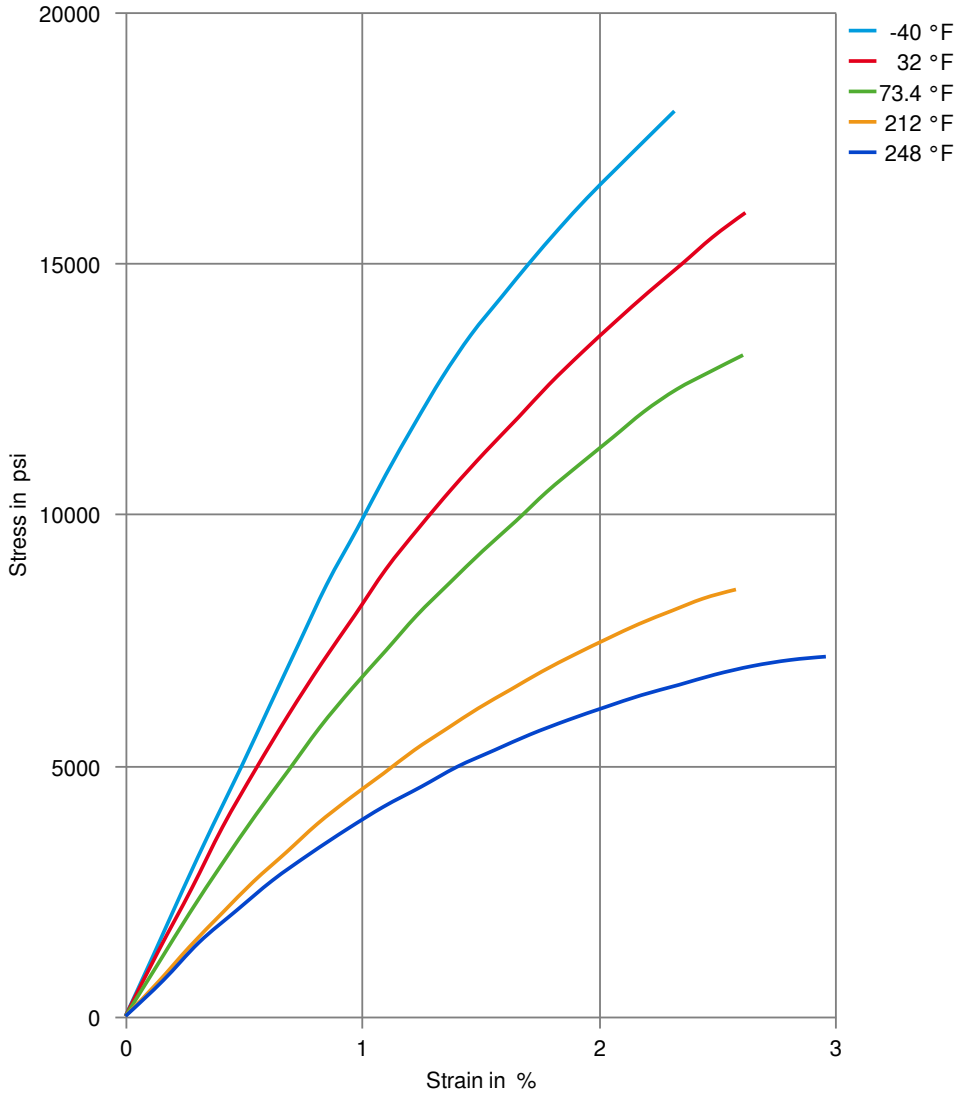
Characteristics

Processing	Injection Molding

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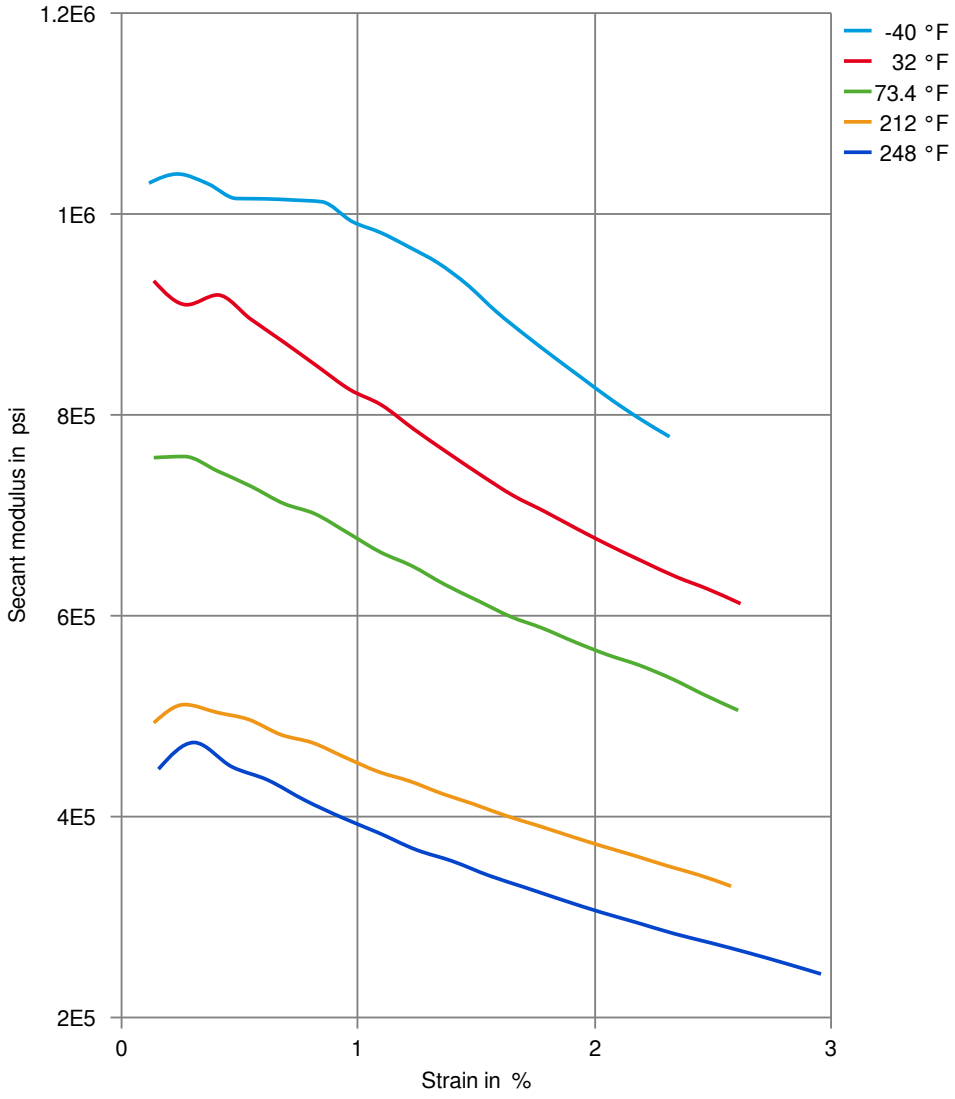
Stress-strain



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Secant modulus-strain



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