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CELSTRAN® PP-GF40-02-BLACK

CELSTRAN® Long Fibre

40% long strand glass fiber reinforced polypropylene, black.

Product information

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

Rheological properties

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

Typical mechanical properties

Tensile modulus	9200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	130	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2	%	ISO 527-1/-2
Flexural modulus	9000	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Charpy impact strength, 23°C	62	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	25	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	30	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	27	kJ/m²	ISO 180/1A
Izod impact strength, -40°C	35.8	kJ/m²	ISO 180/1U
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	158	°C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	IEC 60695-11-10

Physical/Other properties

Density	1210	kg/m³	ISO 1183

Injection

Back pressure	3	MPa
Ejection temperature	117	°C

Characteristics

Processing	Injection Moulding
Delivery form	Pellets

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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.

Automotive

OEM	STANDARD
Ford	WSS-M4D865-B1

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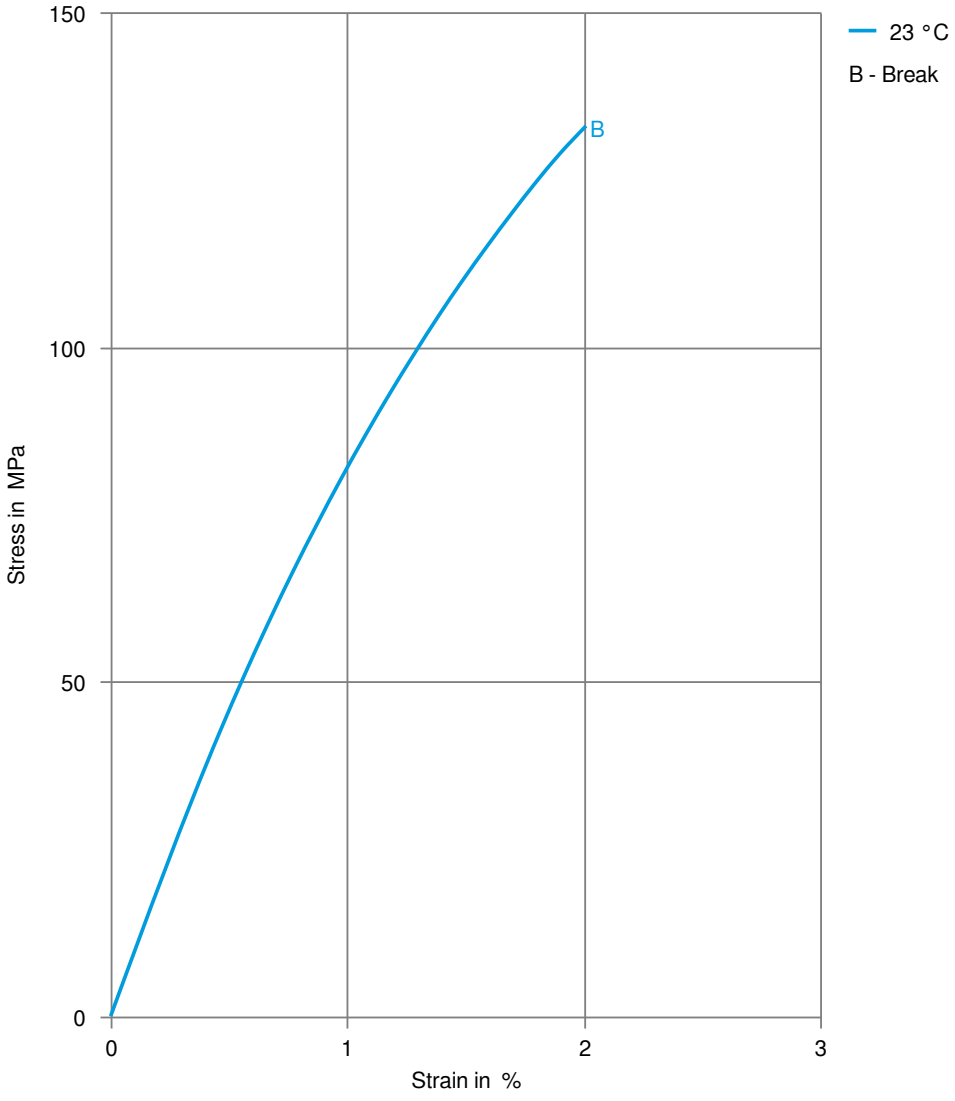
Stress-strain



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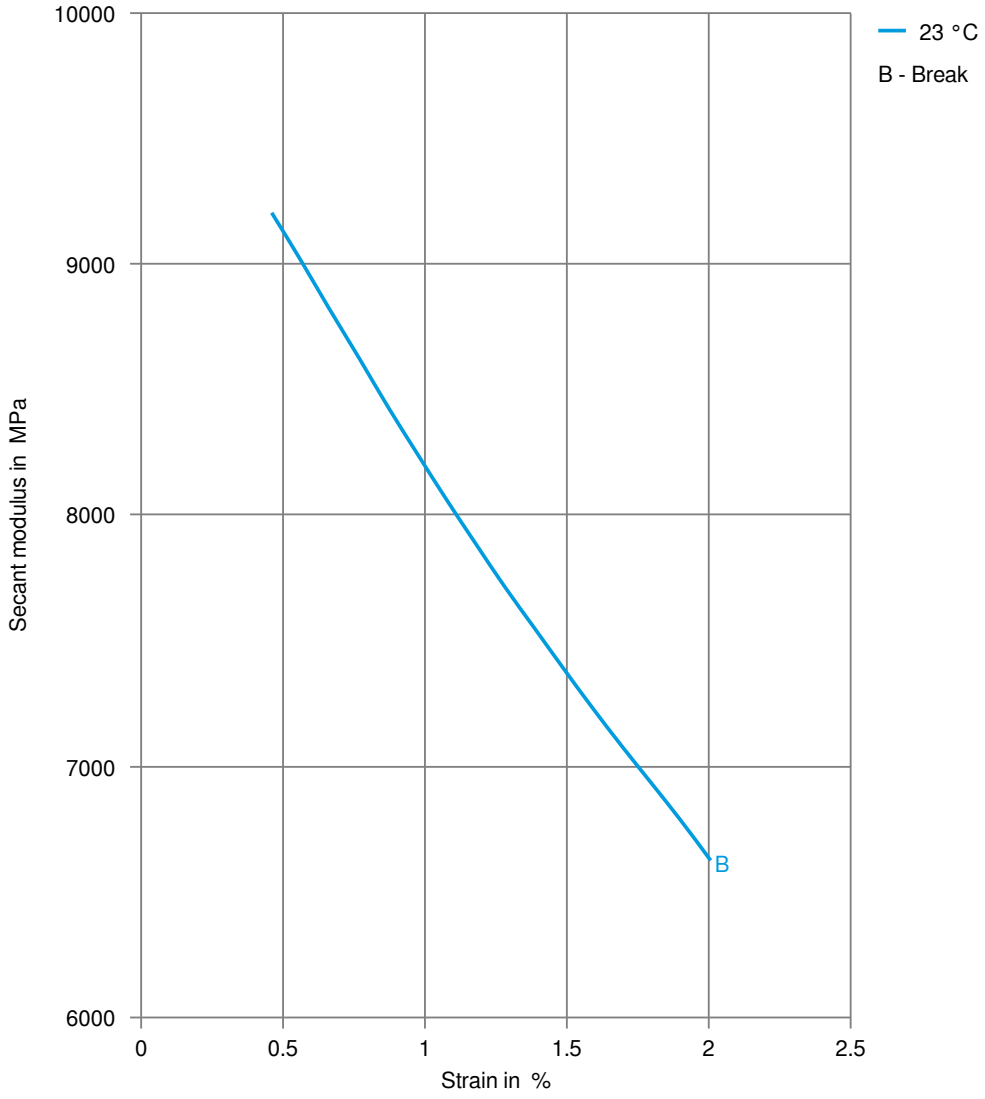
Secant modulus-strain



Revised: 2024-10-30 Source: Celanese Materials Database