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CELSTRAN® PP-GF50-02-BLACK

CELSTRAN® Long Fibre

50% long strand glass fiber chemically coupled polypropylene, Black

Product information

Resin Identification	PP-LGF50	ISO 1043
Part Marking Code	>PP-LGF50<	ISO 11469

Typical mechanical properties

Tensile modulus	11200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	125	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	11400	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Charpy impact strength, 23°C	54	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	52	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	26	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	26	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	30	kJ/m²	ISO 180/1A
Poisson's ratio	0.33[C]		

[C]: Calculated

Thermal properties

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

Physical/Other properties

Density	1340	kg/m³	ISO 1183

Injection

Back pressure	3	MPa
Ejection temperature	117	°C

Characteristics

Processing	Injection Moulding
Delivery form	Pellets

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.

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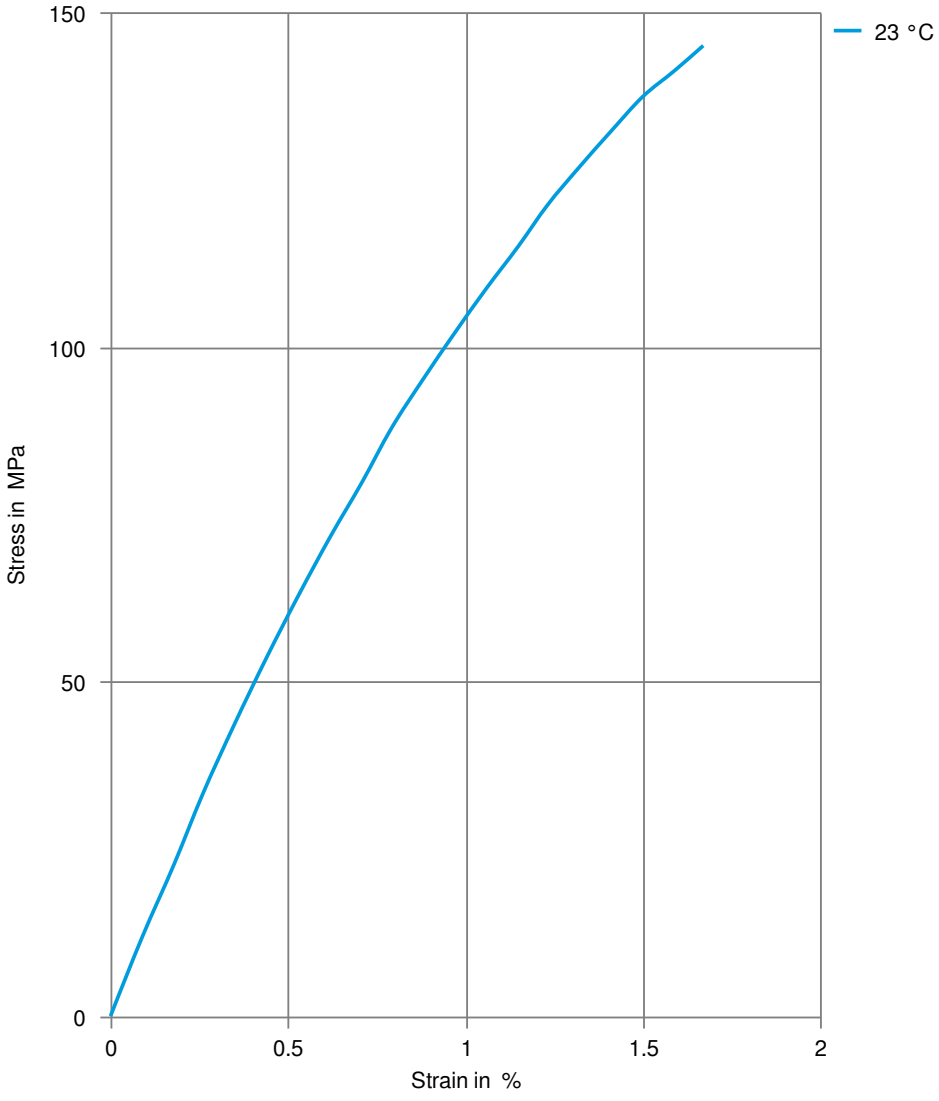
Stress-strain



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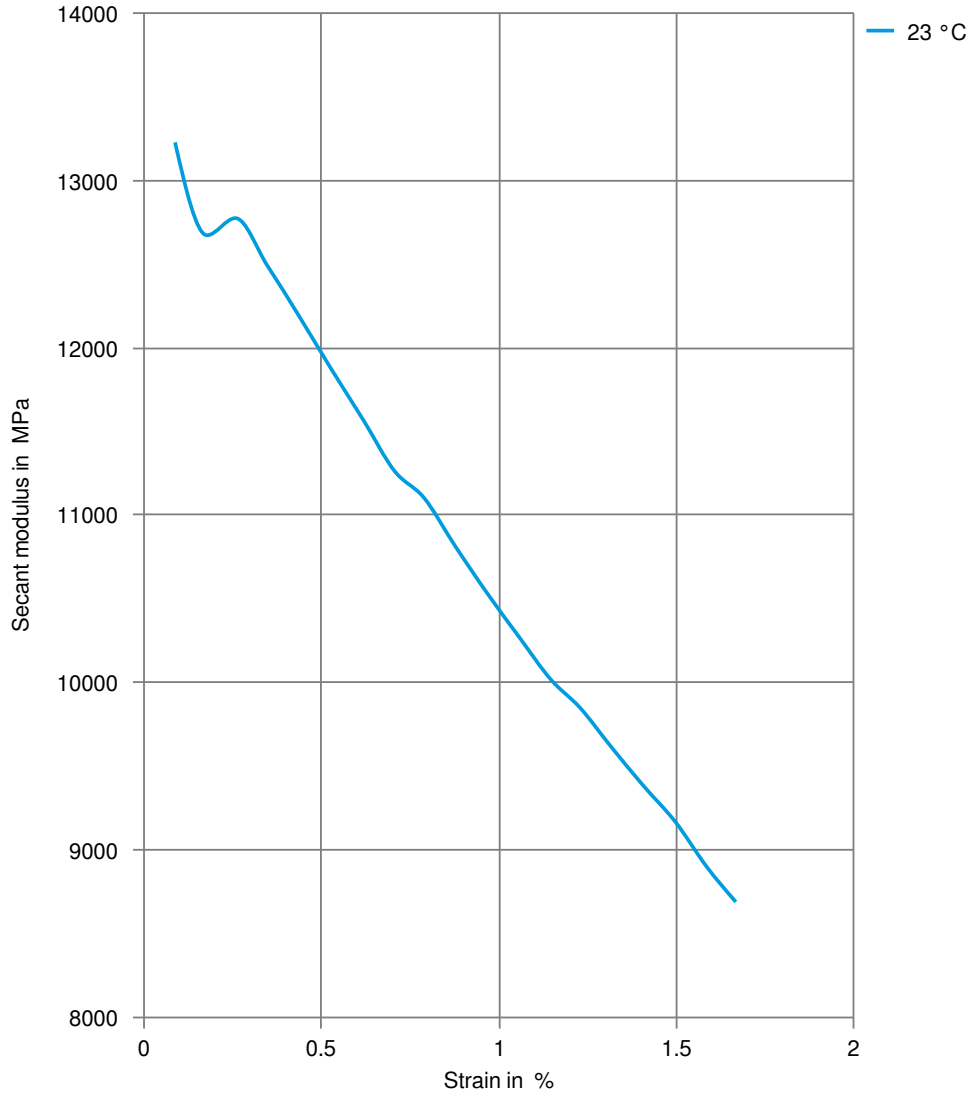
Secant modulus-strain



Revised: 2024-01-23 Source: Celanese Materials Database