

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/m ²	ISO 179/1eU
Charpy impact strength, -30°C	60 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	25 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	30 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	27 kJ/m ²	ISO 180/1A
Izod impact strength, -40°C	35.8 kJ/m ²	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
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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/m ³	ISO 1183
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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

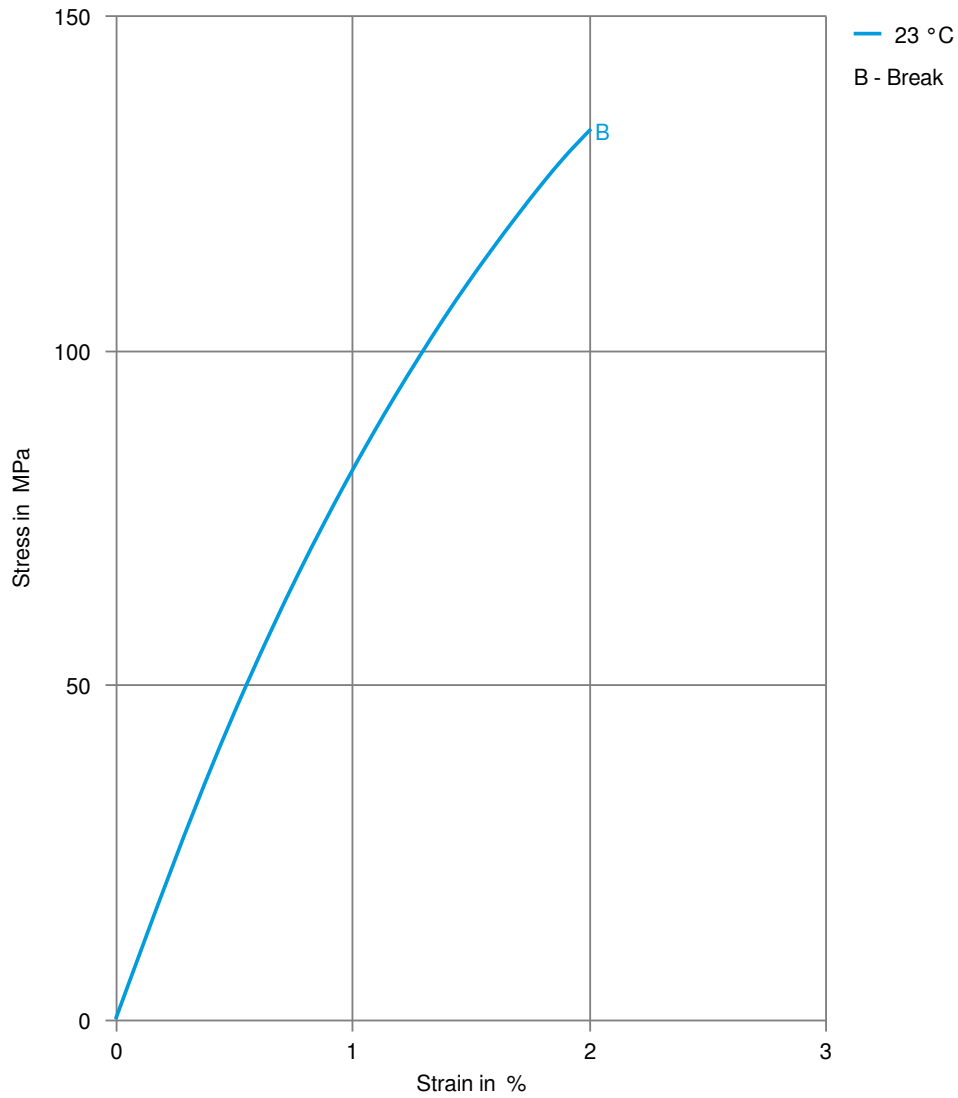
OEM
Ford

STANDARD
WSS-M4D865-B1

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Stress-strain



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Secant modulus-strain

