

CELSTRAN® PP-GF30-0553 XLE Black

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30 weight percent long glass fibers. Impact modified copolymer, low emission. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 10 mm long. Low odor grade, not suggest to use mold release or lubricants in molding.

Rheological properties

Moulding shrinkage range, parallel	0.2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.3 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	6350 MPa	ISO 527-1/-2
Stress at break, 5mm/min	102 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.5 %	ISO 527-1/-2
Flexural Modulus	6550 MPa	ISO 178
Flexural Strength	175 MPa	ISO 178
Charpy impact strength, 23°C	65 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	27 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	164 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160 °C	ISO 75-1/-2

Other properties

Density	1100 kg/m ³	ISO 1183
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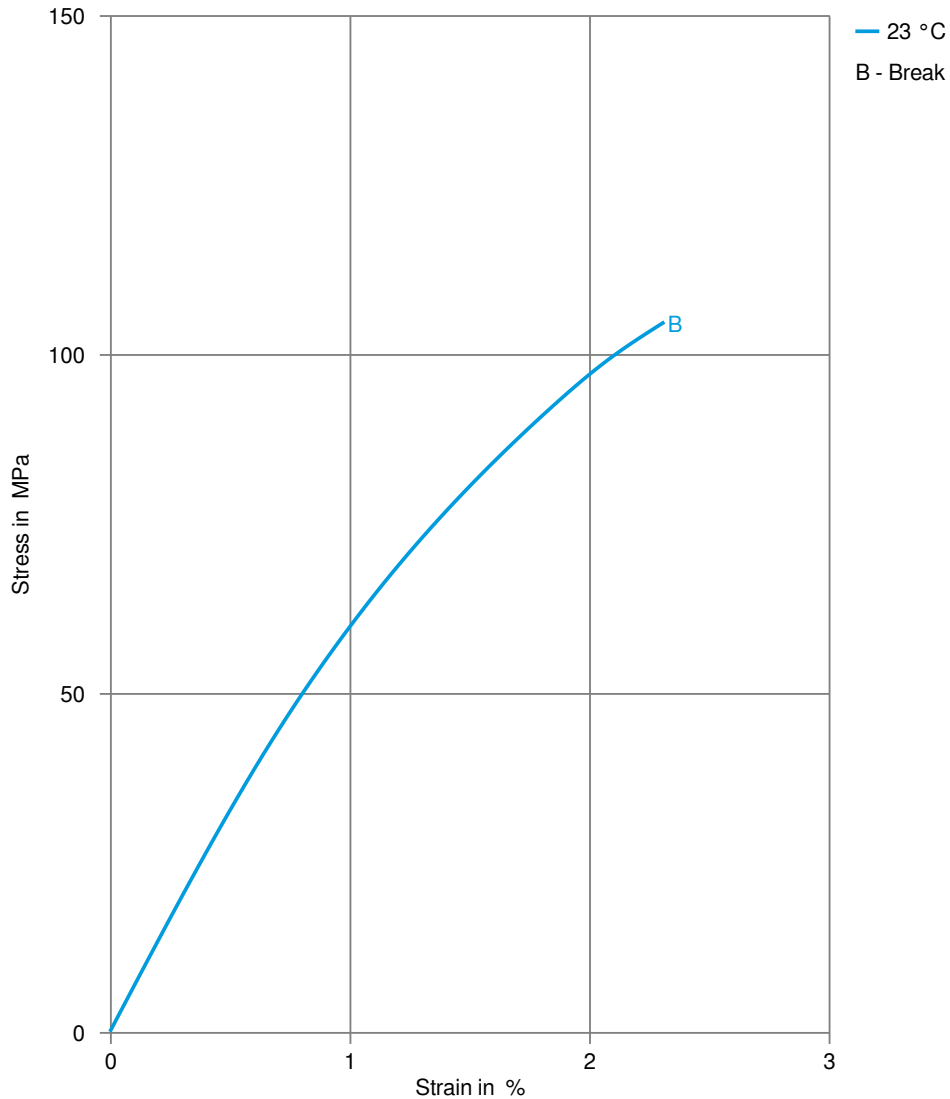
Injection

Drying Temperature	90 - 100 °C
Drying Time, Dehumidified Dryer	2 h
Processing Moisture Content	0.2 %
Screw tangential speed	0.1 m/s
Max. mould temperature	30 - 70 °C
Back pressure	3 MPa
Injection speed	slow



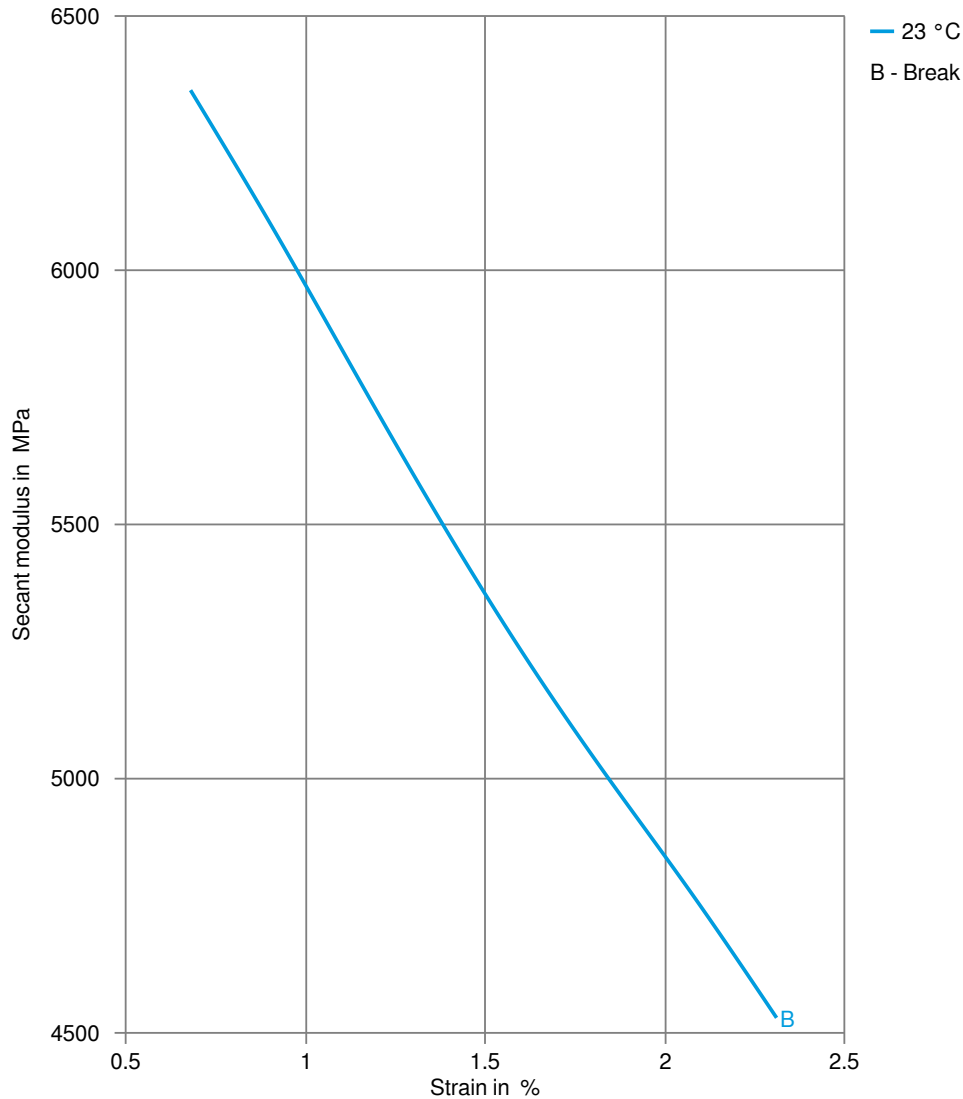
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Stress-strain



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Secant modulus-strain



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Processing Texts

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.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Li Auto	Q/LiA5310050	2021 (V2)

