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CELSTRAN® PP-GF30-0553 XLE BLACK

CELSTRAN® Long Fibre

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.

Product information

Resin Identification	PP-LGF30	ISO 1043
Part Marking Code	>PP-LGF30<	ISO 11469

Rheological properties

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

Typical mechanical properties

Tensile modulus	6350	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	102	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5	%	ISO 527-1/-2
Flexural modulus	6550	MPa	ISO 178
Flexural strength	180	MPa	ISO 178
Charpy impact strength, 23 °C	70	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	25	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C	27	kJ/m²	ISO 179/1eA
Poisson's ratio	0.35[C]		

[C]: Calculated

Thermal properties

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

Physical/Other properties

Density	1100	kg/m³	ISO 1183

Injection

Back pressure	3	MPa

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	High impact or impact modified, Low emissions

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

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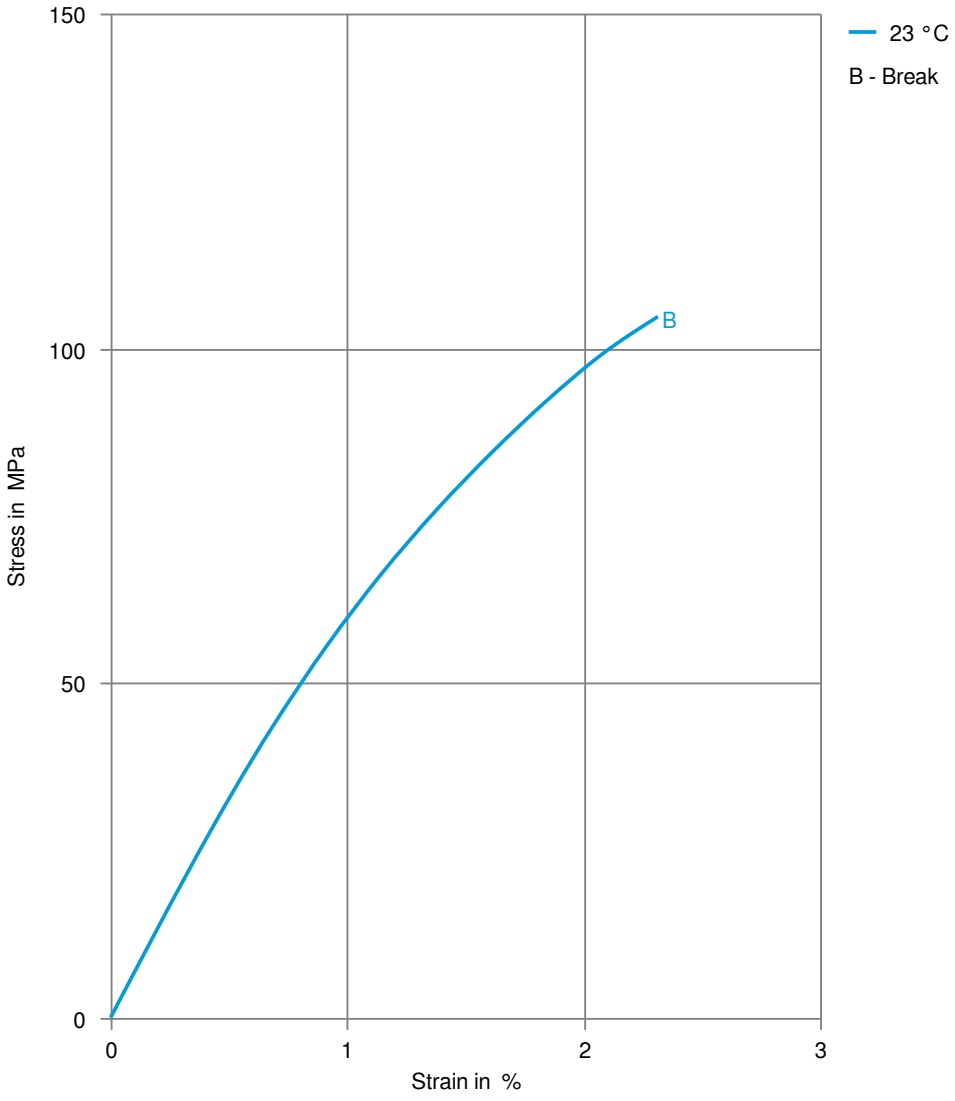
storage, drying is required.

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Li Auto	Q/LiA5310050	2021 (V2)

Stress-strain



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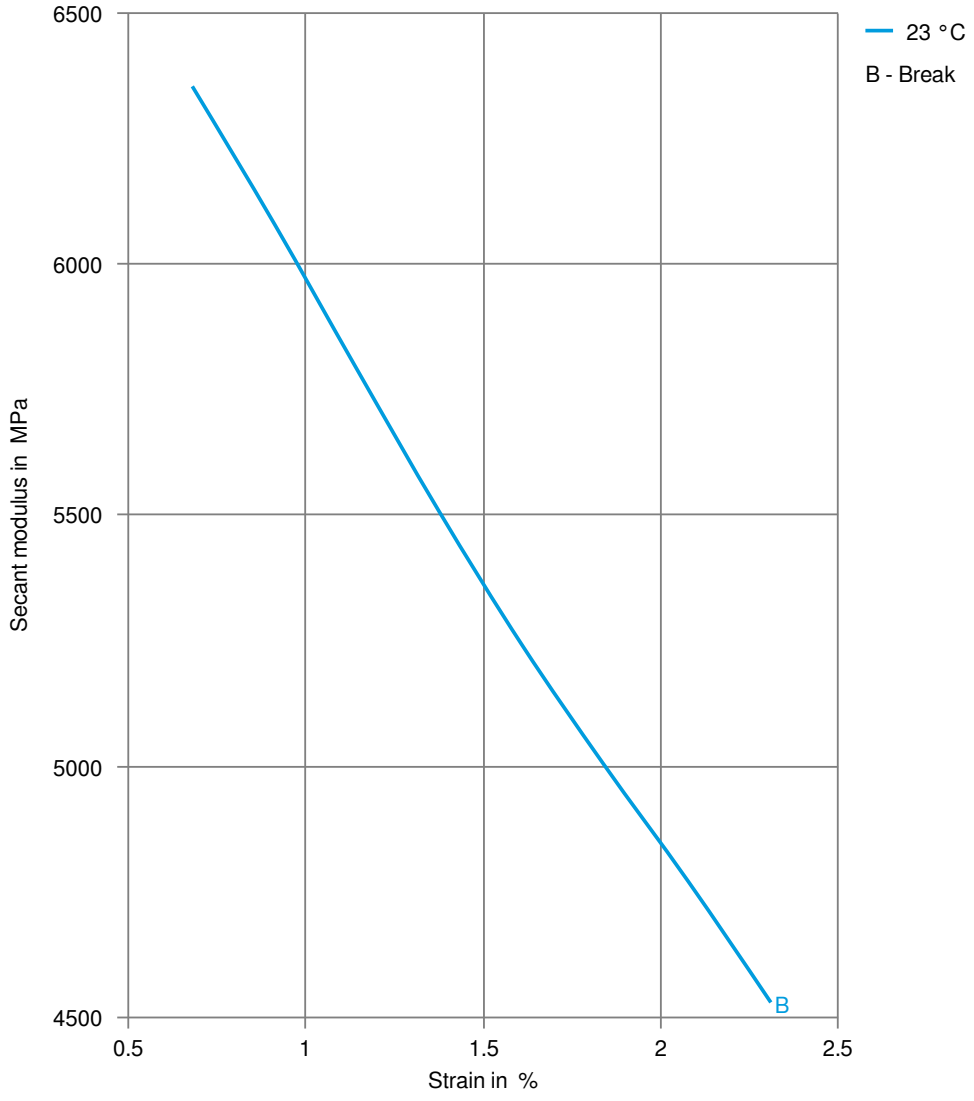
Secant modulus-strain



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