

# 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/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	25 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	27 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.35 <sup>[C]</sup>	

[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/m <sup>3</sup>	ISO 1183
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### Injection

Back pressure	3 MPa
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### 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.

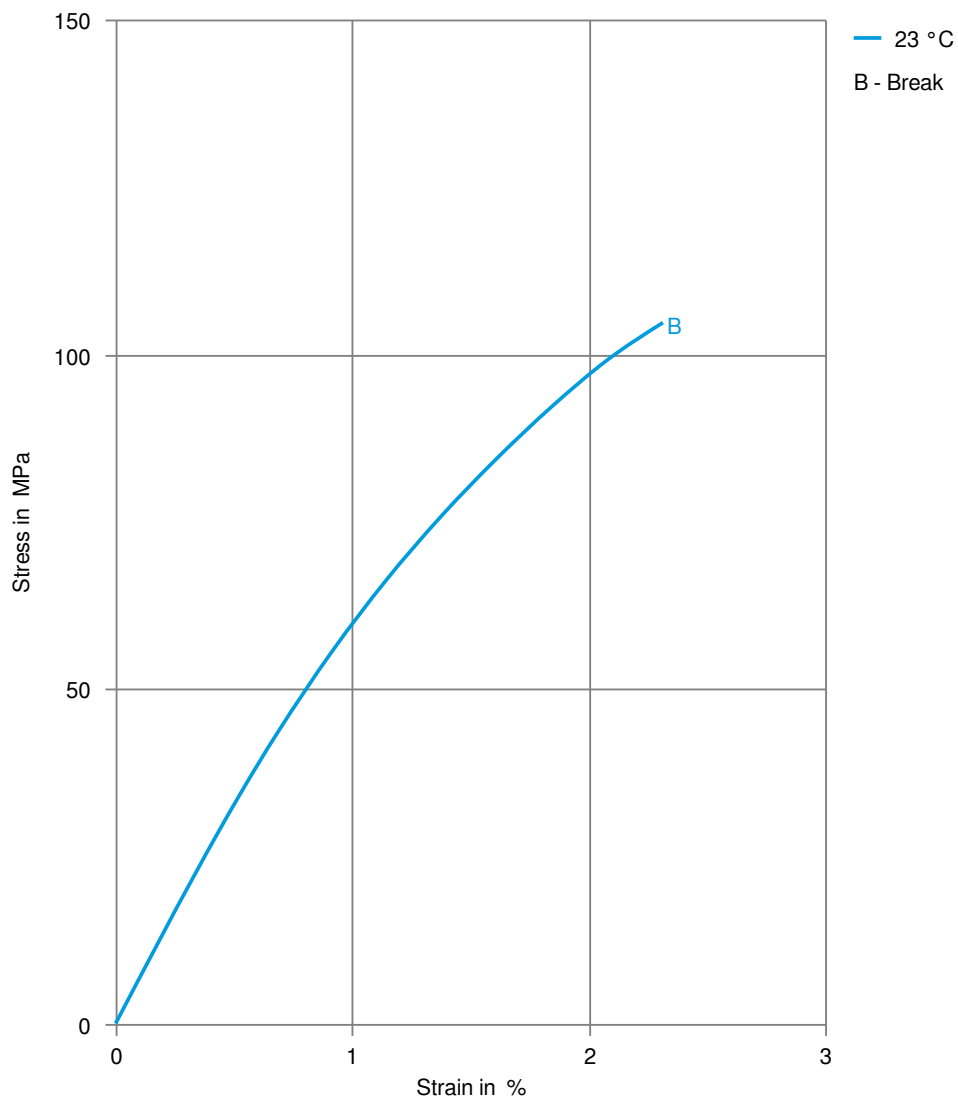
### Automotive

OEM  
Li Auto

STANDARD  
Q/LiA5310050

ADDITIONAL INFORMATION  
2021 (V2)

### Stress-strain



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### Secant modulus-strain

