

CELSTRAN® PP-GF40-0453 XVA Black

Typical mechanical properties

Tensile Modulus	8900 MPa	ISO 527-1/-2
Stress at break, 5mm/min	123 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.95 %	ISO 527-1/-2
Flexural Modulus	8600 MPa	ISO 178
Flexural Strength	203 MPa	ISO 178
Charpy impact strength, 23°C	64 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	27 kJ/m ²	ISO 179/1eA

Thermal properties

Temp. of deflection under load, 1.8 MPa	160 °C	ISO 75-1/-2
---	--------	-------------

Other properties

Density	1200 kg/m ³	ISO 1183
---------	------------------------	----------

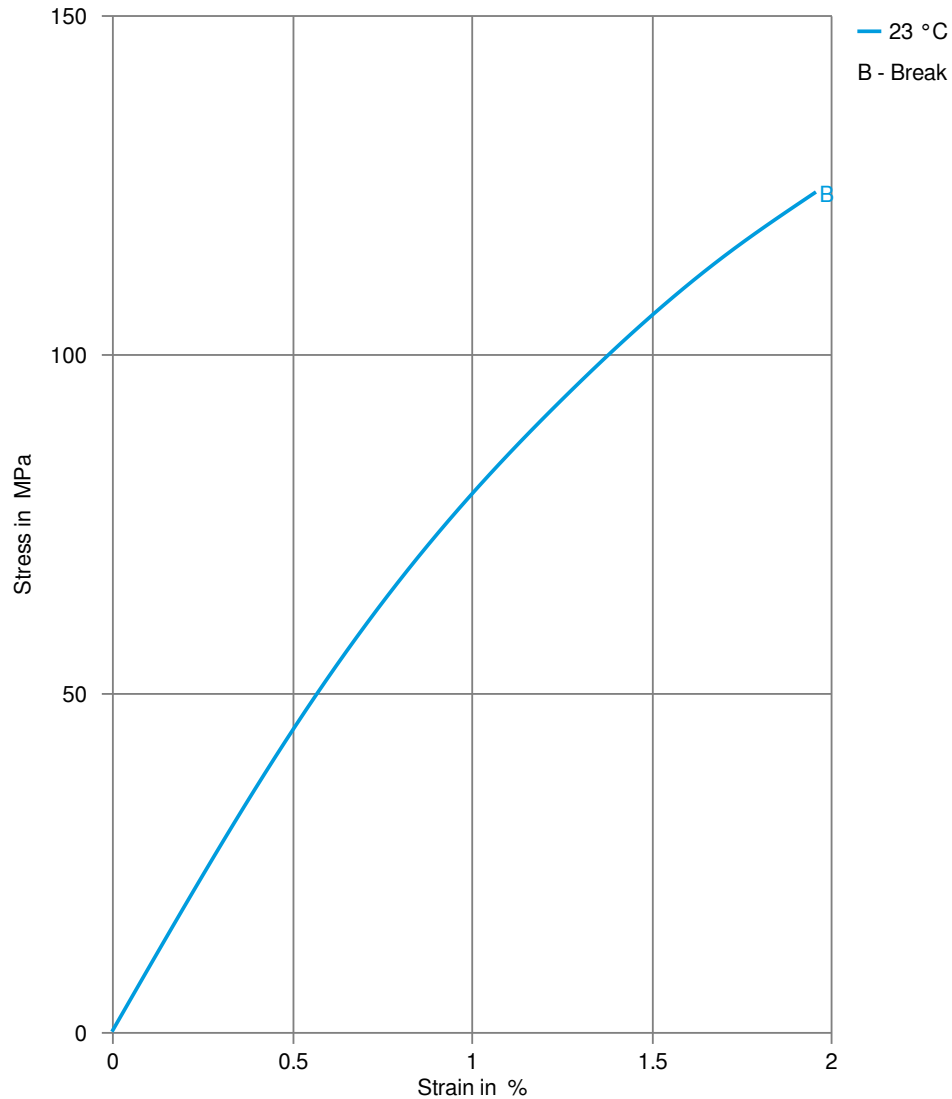
Injection

Drying Temperature	90 - 100 °C	
Drying Time, Dehumidified Dryer	2 h	
Processing Moisture Content	0.2 %	
Melt Temperature Optimum	227 °C	Internal
Screw tangential speed	0.1 m/s	
Max. mould temperature	50 - 80 °C	
Back pressure	1 MPa	
Injection speed	slow	



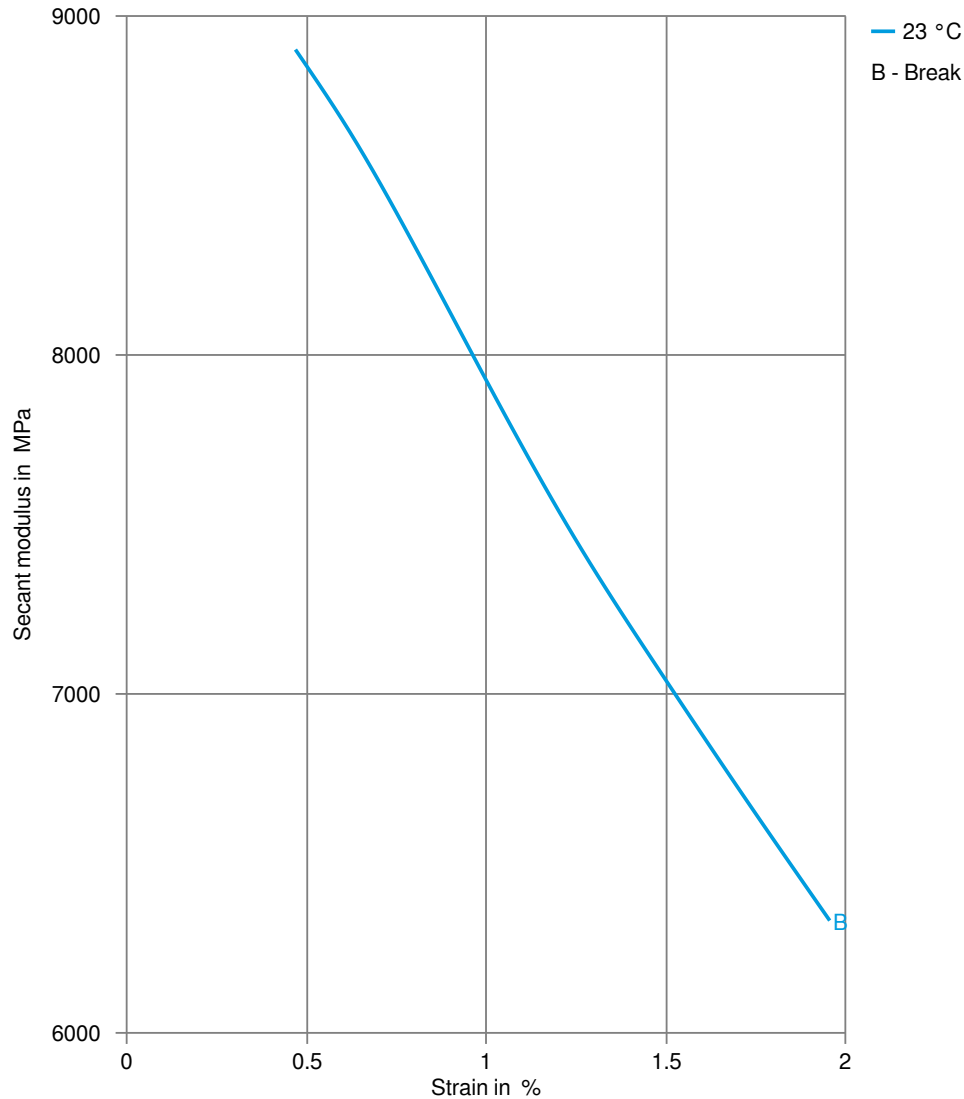
CELSTRAN® PP-GF40-0453 XVA Black

Stress-strain



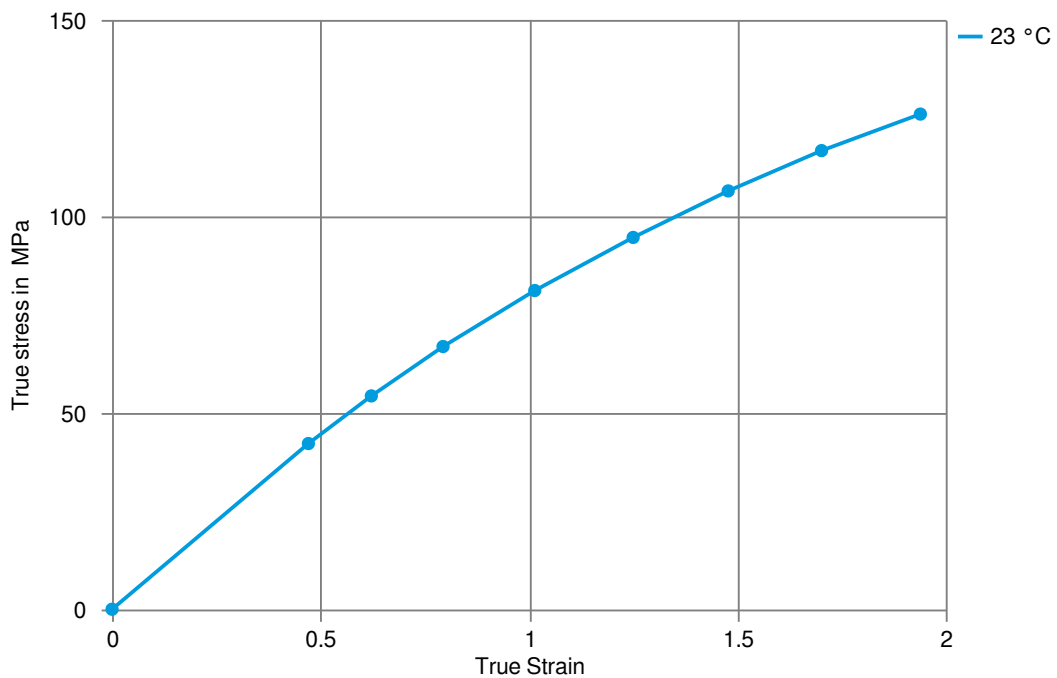
CELSTRAN® PP-GF40-0453 XVA Black

Secant modulus-strain



CELSTRAN® PP-GF40-0453 XVA Black

True stress-strain



CELSTRAN® PP-GF40-0453 XVA Black

Other Approvals

Other Approvals

OEM	Specification
Li Auto	Q/LiA5310050

