HOSTAFORM® XGC15-LW01 XAP®

High strength glass coupled, Glass reinforced, tribological modified
Hostaform® XGC15-LW01 is an injection molding grade reinforced with approximately 15% glass fibers and tribological modification for sliding applications requiring low friction and wear.

Rheological properties

Melt volume-flow rate	1.1	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	1.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.9	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	5400	MPa	ISO 527-1/-2
Stress at break, 5mm/min	105	MPa	ISO 527-1/-2
Strain at break, 5mm/min	3.8	%	ISO 527-1/-2
Flexural Modulus	5100	MPa	ISO 178
Shear Modulus	1370	MPa	ISO 6721
Charpy impact strength, 23°C	50	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	9.5	kJ/m^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	40	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2

Other properties

Density	1460	kg/m^3	ISO 1183

Injection

Drying Temperature	100 - 120	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	0.15	%	
Melt Temperature Optimum	210	°C	Internal
Screw tangential speed	0.2 - 0.21	m/s	
Max. mould temperature	80 - 120	°C	
Back pressure	2	MPa	
Injection speed	slow		

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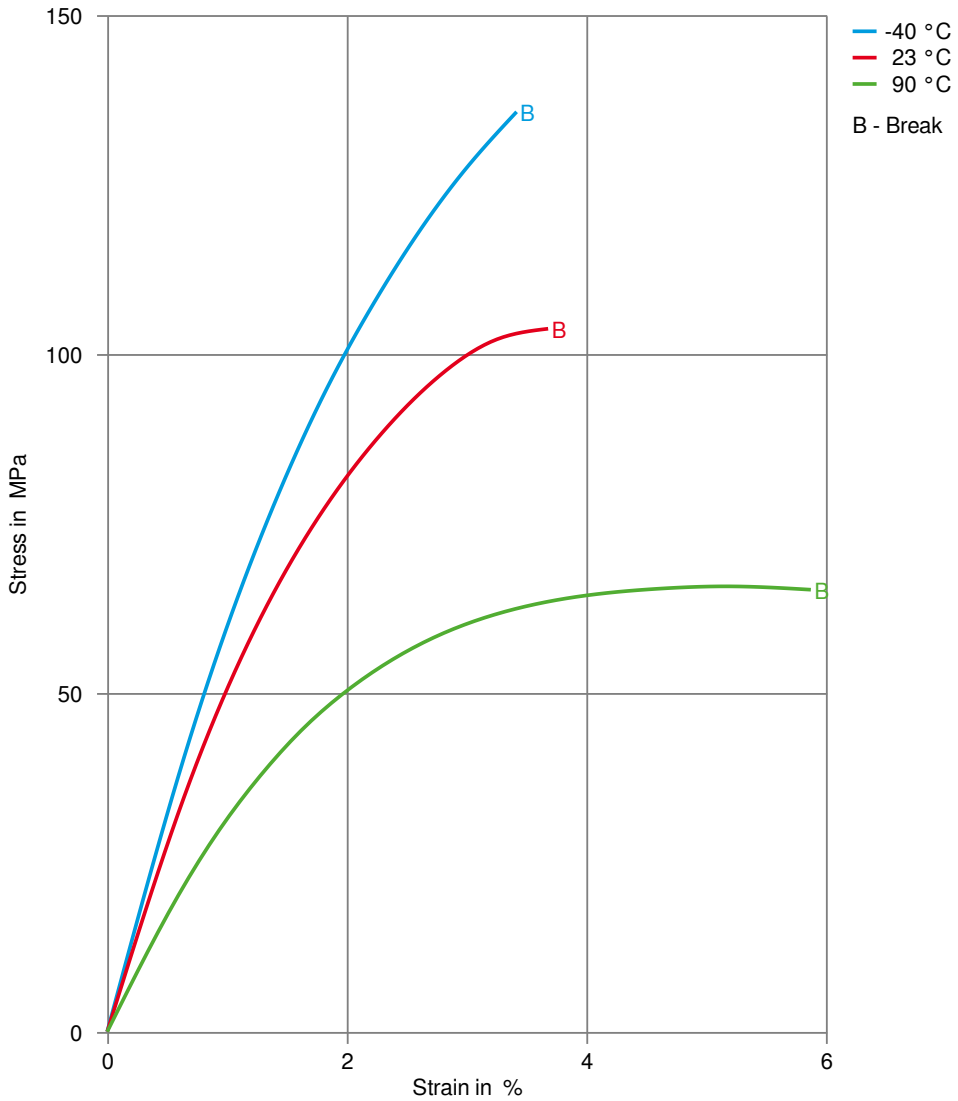
Stress-strain



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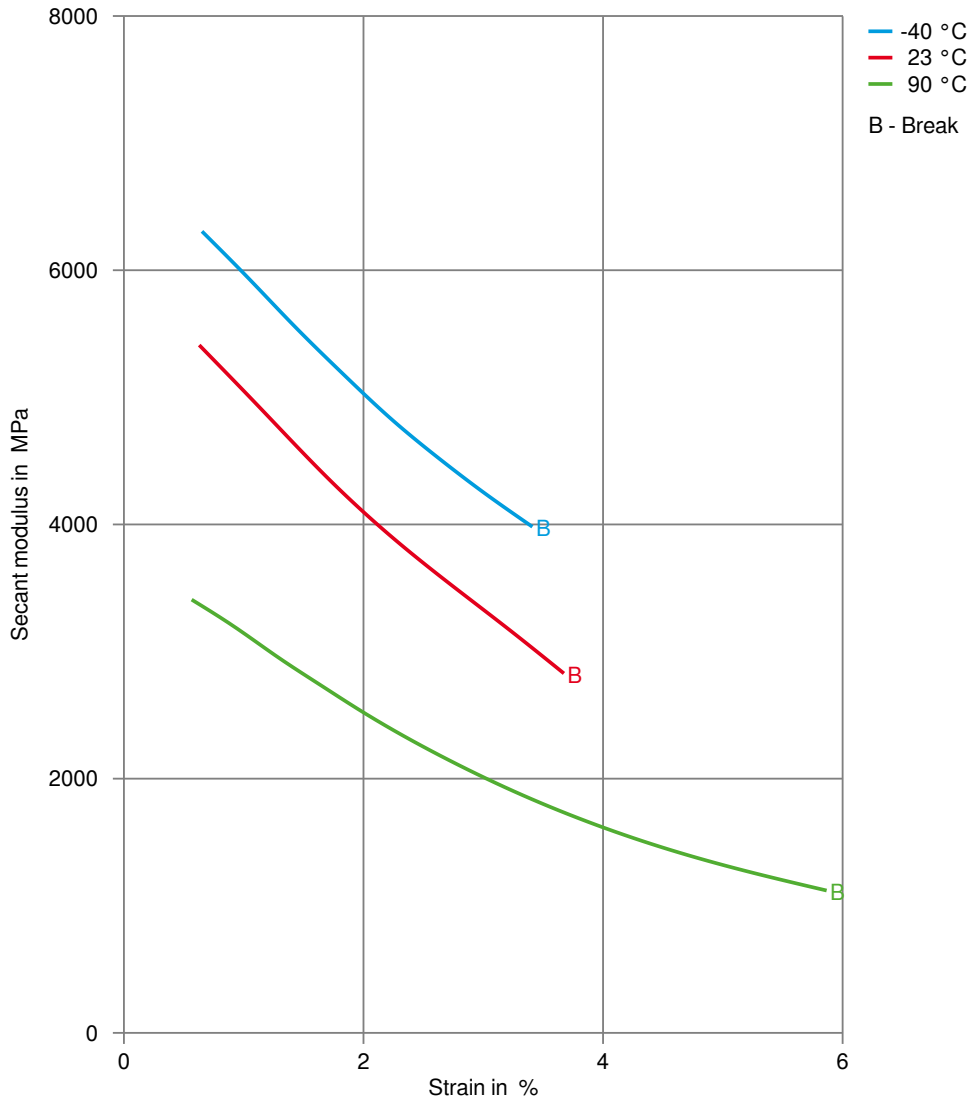
Secant modulus-strain



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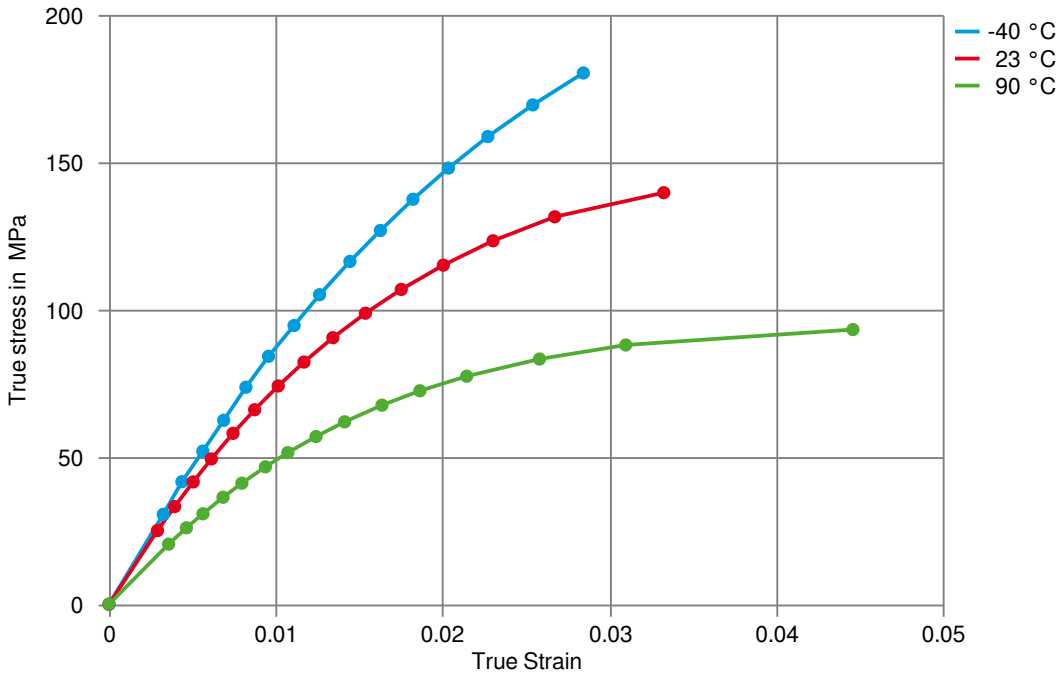
True stress-strain



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Processing Texts

Pre-drying	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.

Revised: 2023-05-21 Source: Celanese Materials Database