

High strength glass coupled, Glass reinforced, tribological modified

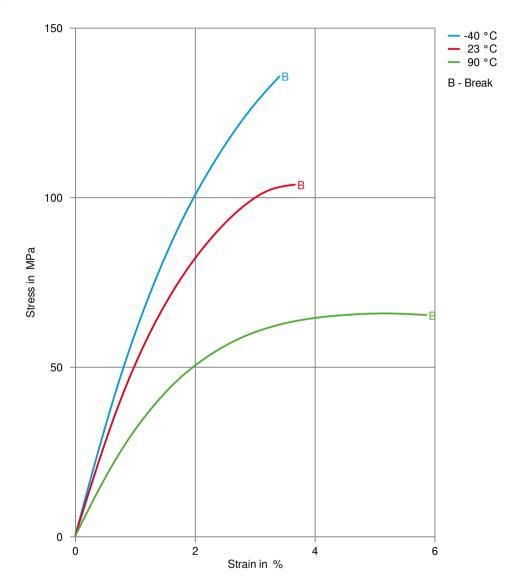
Hostaform® XGC15-LW01 is an injection molding grade reinforced with approximately 15% glass fibers and tribological modification for sliding applications requiring low friction and wear.

### **Rheological properties**

Melt volume-flow rate Temperature Load Moulding shrinkage, parallel Moulding shrinkage, normal	1.1 190 2.16 1.1 0.9	kg %	ISO 1133 ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus Stress at break, 5mm/min Strain at break, 5mm/min Flexural Modulus Shear Modulus Charpy impact strength, 23°C Charpy notched impact strength, 23°C	105 3.8 5100 1370 50	MPa MPa % MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 6721 ISO 179/1eU ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min Temp. of deflection under load, 1.8 MPa Coeff. of linear therm. expansion, parallel Coeff. of linear therm. expansion, normal			ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2
Other properties			
Density	1460	kg/m <sup>3</sup>	ISO 1183
Injection			
Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Screw tangential speed Max. mould temperature Back pressure Injection speed	100 - 120 3 - 4 0.15 210 0.2 - 0.21 80 - 120 2 slow	h % °C m/s	Internal

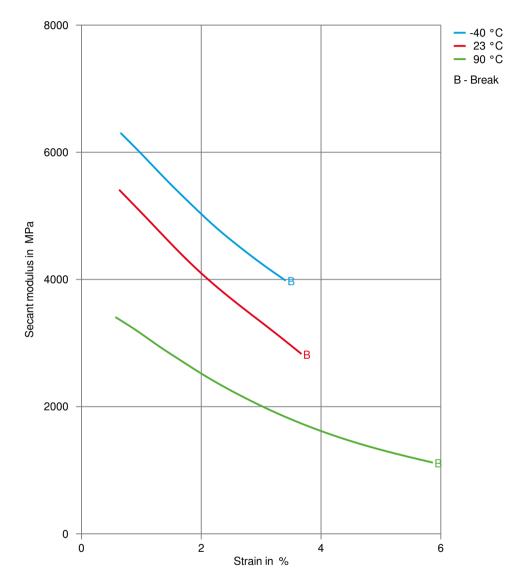


Stress-strain



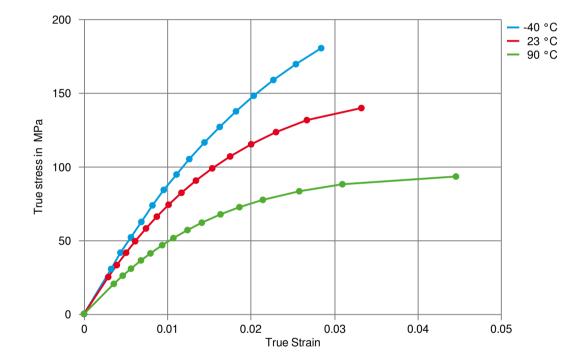


#### Secant modulus-strain





True stress-strain





#### **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.

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Page: 5 of 5

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