

KEPITAL® HL100

High viscosity friction & wear acetal homopolymer

- High viscosity friction & wear polyacetal homopolymer
- non-silicon type special polymer modified wear-friction resistance grade for injection molding
- Designed for applications requiring reduced wear, low friction and low noise.

Rheological properties

Moulding shrinkage, parallel	2.1 %	ISO 294-4, 2577
Moulding shrinkage, normal	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2700 MPa	ISO 527-1/-2
Yield stress, 50mm/min	65 MPa	ISO 527-1/-2
Yield strain, 50mm/min	20 %	ISO 527-1/-2
Nominal strain at break	43 %	ISO 527-1/-2
Flexural Modulus	2580 MPa	ISO 178
Flexural Strength	86 MPa	ISO 178
Charpy impact strength, 23°C	NB kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	8.9 kJ/m ²	ISO 179/1eA

Thermal properties

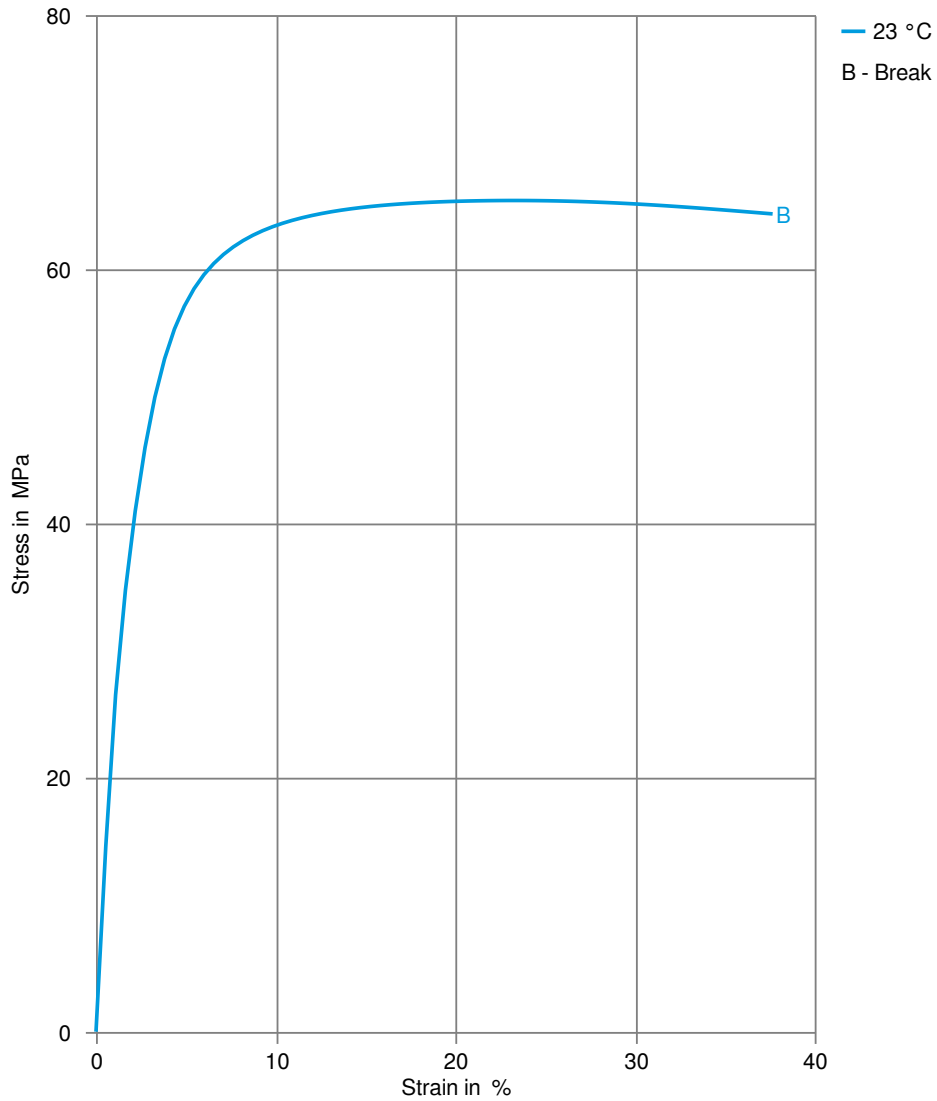
Melting temperature, 10°C/min	177 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2

Other properties

Density	1410 kg/m ³	ISO 1183
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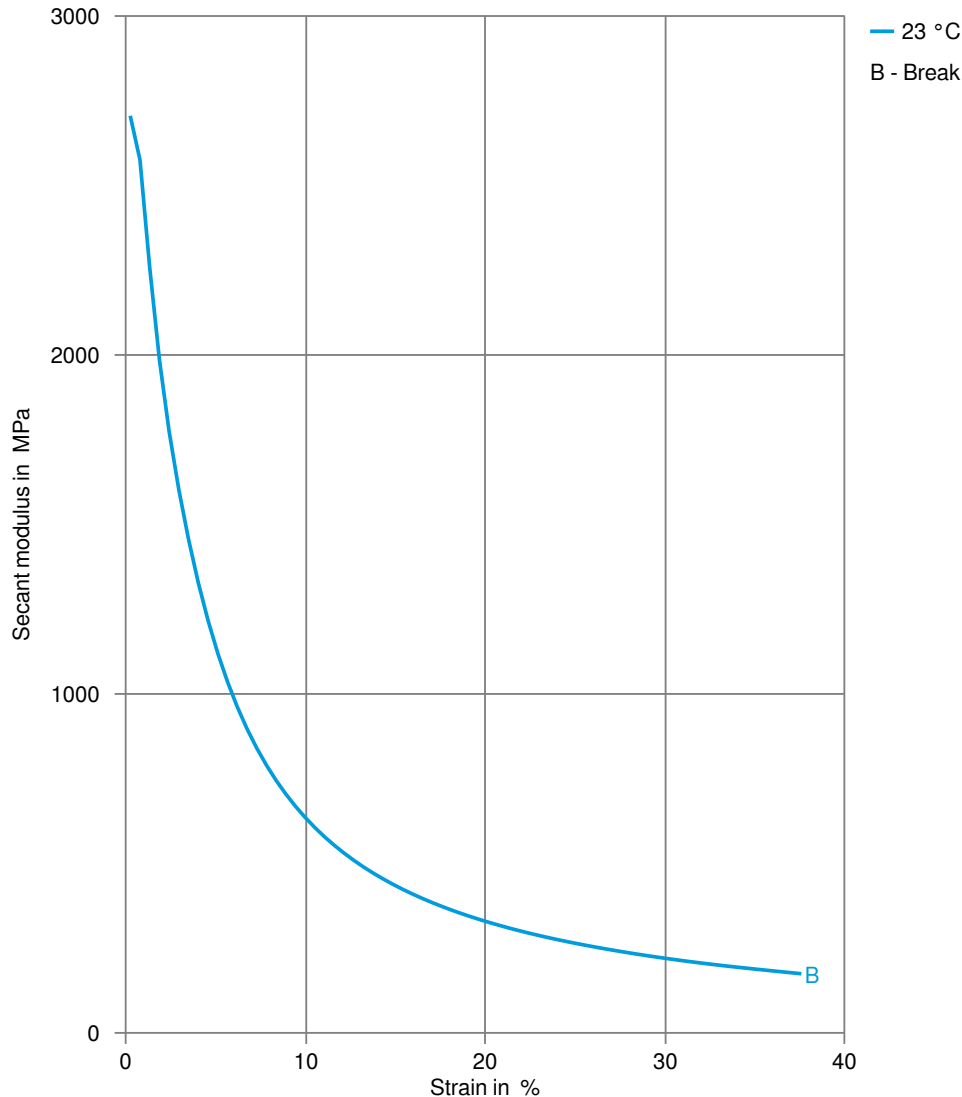
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Stress-strain



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Secant modulus-strain



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