

HOSTAFORM® LW15EWX

slip improved M15HP

Hostaform® LW15EWX is a specialty low wear grade of acetal copolymer designed for improved performance including when paired against other thermoplastic resins (PBT, PA, PC, PMMA) or steel. Due to the special wax blend the material has a good weld line strength. Compared to Hostaform® LW90EWX, this grade has higher toughness and strength.

Rheological properties

| | | |
|-----------------------|----------------------------|----------|
| Melt volume-flow rate | 2.5 cm ³ /10min | ISO 1133 |
| Temperature | 190 °C | |
| Load | 2.16 kg | |

Typical mechanical properties

| | | |
|--|----------------------|--------------|
| Tensile Modulus | 2650 MPa | ISO 527-1/-2 |
| Yield stress, 50mm/min | 63 MPa | ISO 527-1/-2 |
| Yield strain, 50mm/min | 19 % | ISO 527-1/-2 |
| Nominal strain at break | 32 % | ISO 527-1/-2 |
| Charpy notched impact strength, 23 °C | 14 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30 °C | 11 kJ/m ² | ISO 179/1eA |

Thermal properties

| | | |
|---|--------|----------------|
| Melting temperature, 10 °C/min | 173 °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa | 93 °C | ISO 75-1/-2 |

Other properties

| | | |
|---------|------------------------|----------|
| Density | 1400 kg/m ³ | ISO 1183 |
|---------|------------------------|----------|

Injection

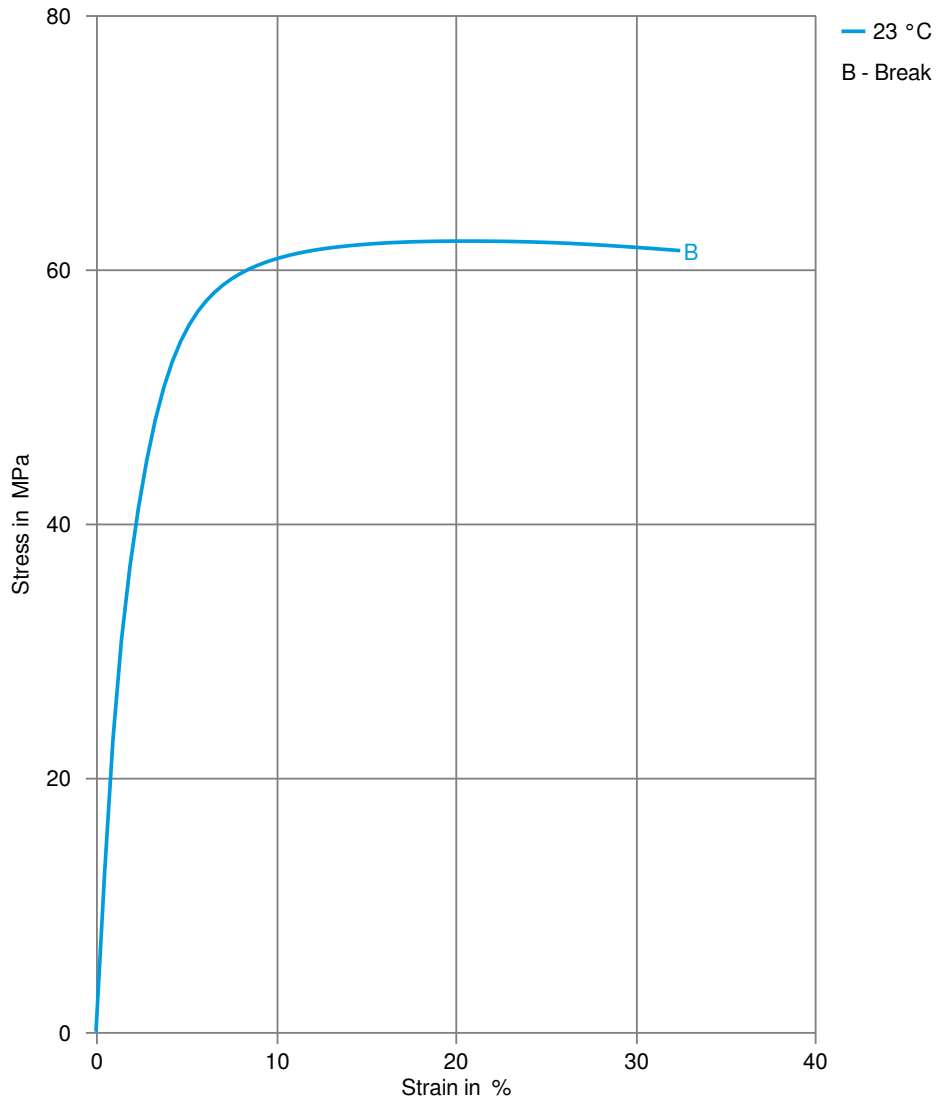
| | |
|---------------------------------|--------------|
| Drying Temperature | 100 - 120 °C |
| Drying Time, Dehumidified Dryer | 3 - 4 h |
| Max. mould temperature | 90 - 120 °C |
| Back pressure | 4 MPa |
| Injection speed | slow |

Characteristics

| | |
|-----------|---------------|
| Additives | Release agent |
|-----------|---------------|

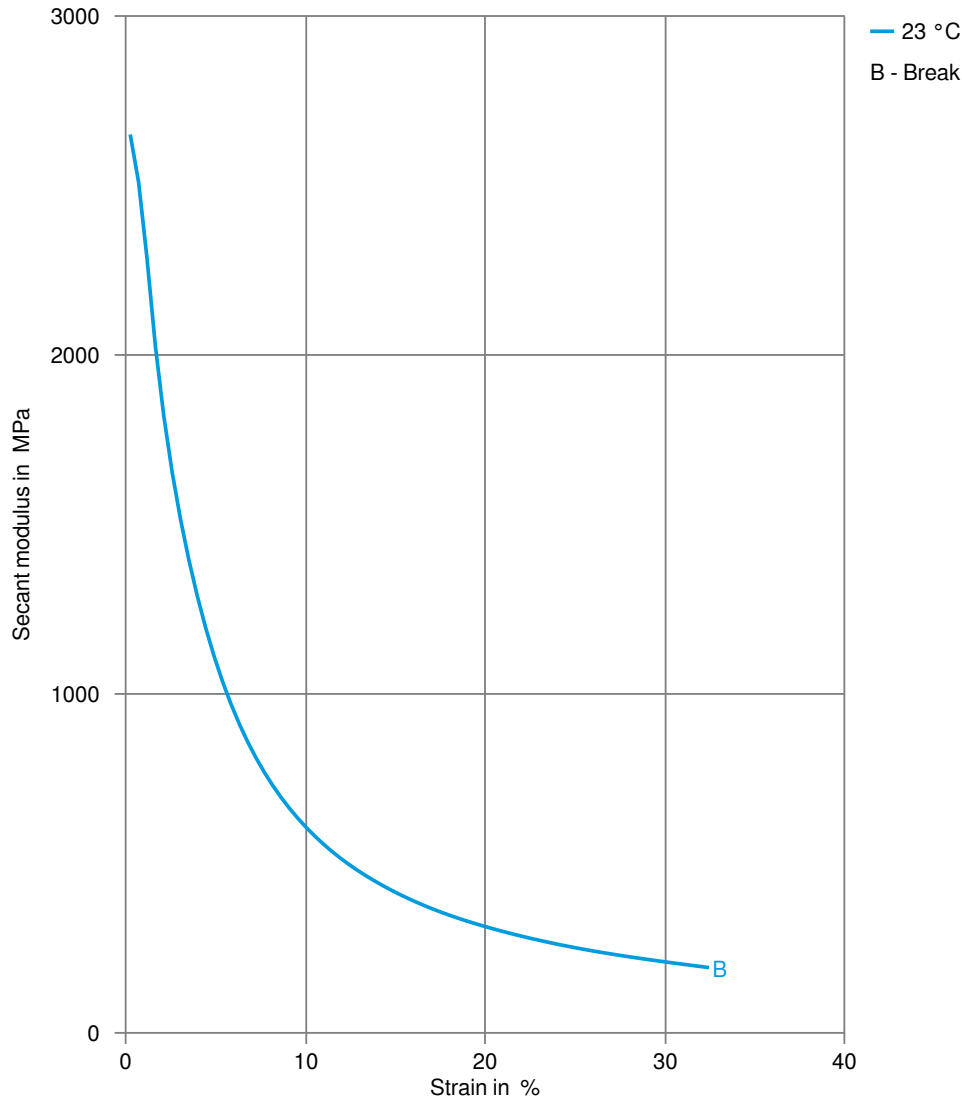
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Stress-strain



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Secant modulus-strain



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Page: 3 of 3

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