

HOSTAFORM® LW15EWX

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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.

Product information

Resin Identification	POM	ISO 1043
Part Marking Code	>POM<	ISO 11469

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
Tensile stress at yield, 50mm/min	63 MPa	ISO 527-1/-2
Tensile strain at yield, 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
Poisson's ratio	0.38 ^[C]	

[C]: Calculated

Thermal properties

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

Physical/Other properties

Density	1400 kg/m ³	ISO 1183
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Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	200 °C
Min. melt temperature	190 °C
Max. melt temperature	210 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	105 °C
Min. mould temperature	90 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

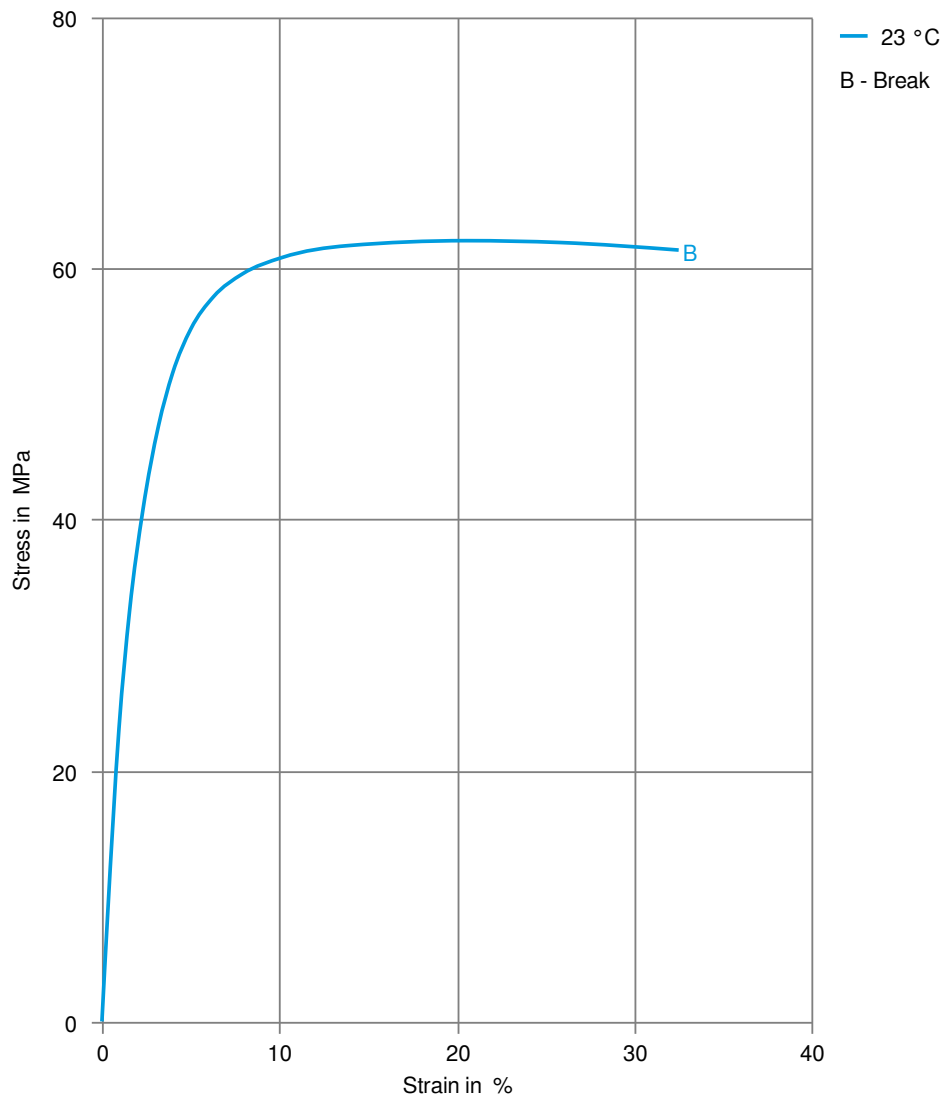
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	Low wear / Low friction

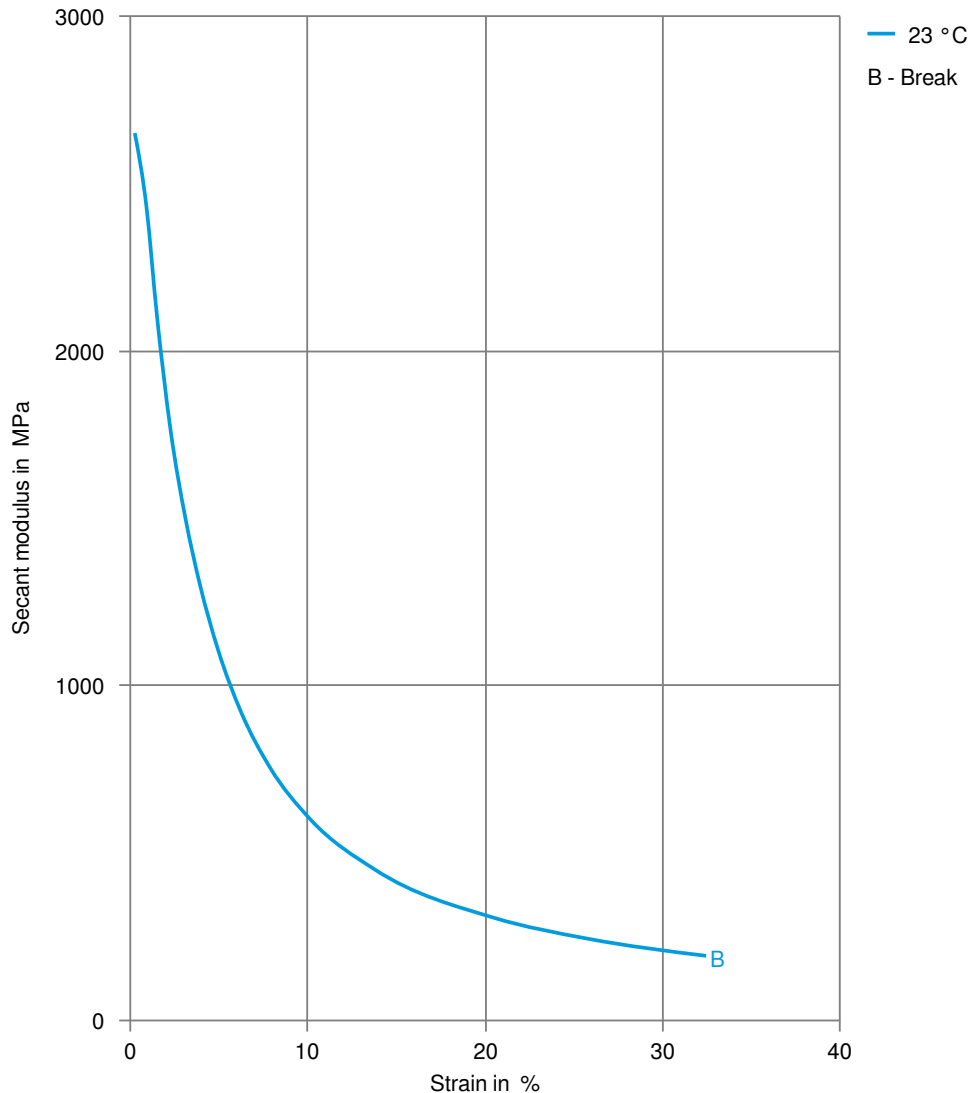
Stress-strain



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Secant modulus-strain



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