Celanese
The chemistry inside innovation™

HOSTAFORM® LW90EWX

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Hostaform® LW90EWX 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.

Product information

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

Rheological properties

Melt volume-flow rate	9.5	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	

Typical mechanical properties

Tensile modulus	2800	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	61	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	28	%	ISO 527-1/-2
Charpy impact strength, 23°C	180	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 358/30	135	MPa	ISO 2039-1
Poisson's ratio	0.37[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	92	°C	ISO 75-1/-2

Physical/Other properties

Density	1400	kg/m^3	ISO 1183

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	100	°C
Min. mould temperature	80	°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

Additional information

Processing Notes

Storage

The product can then be stored in standard conditions until processed.

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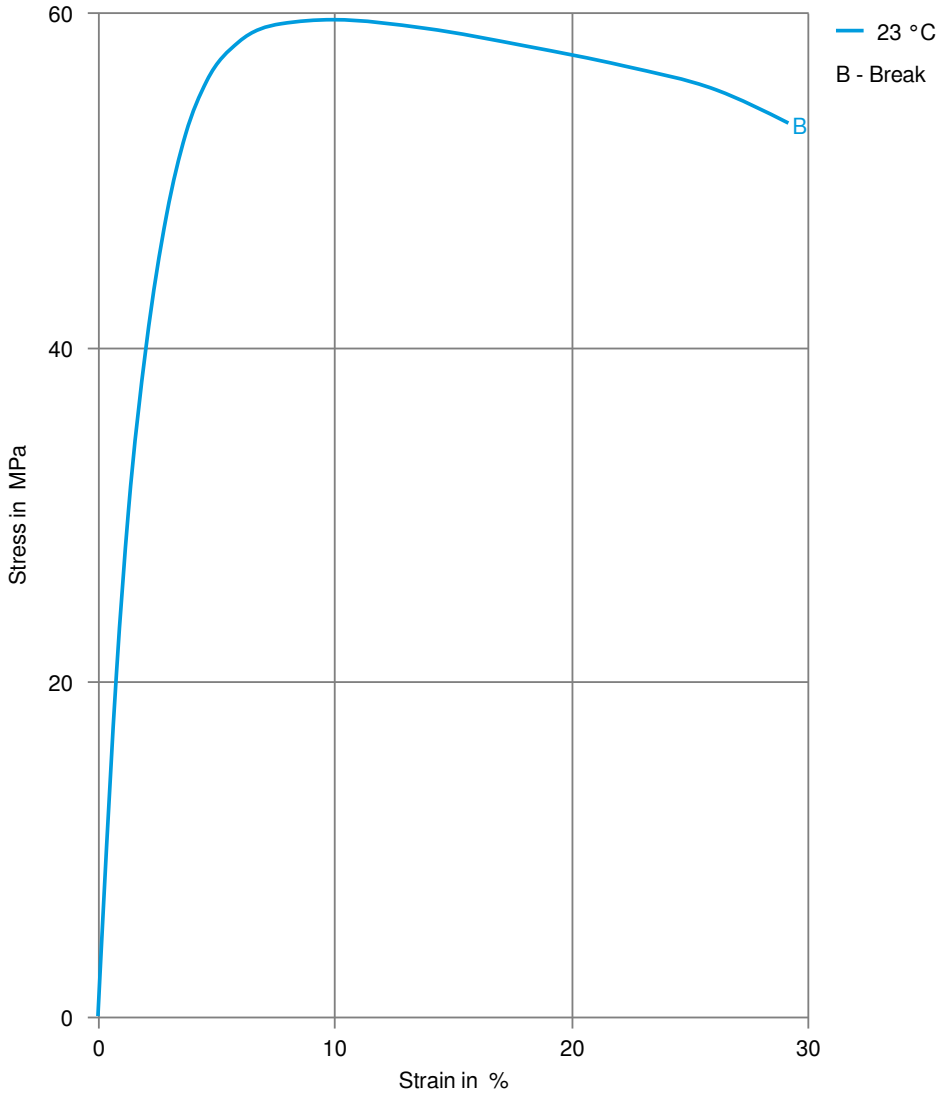
Stress-strain



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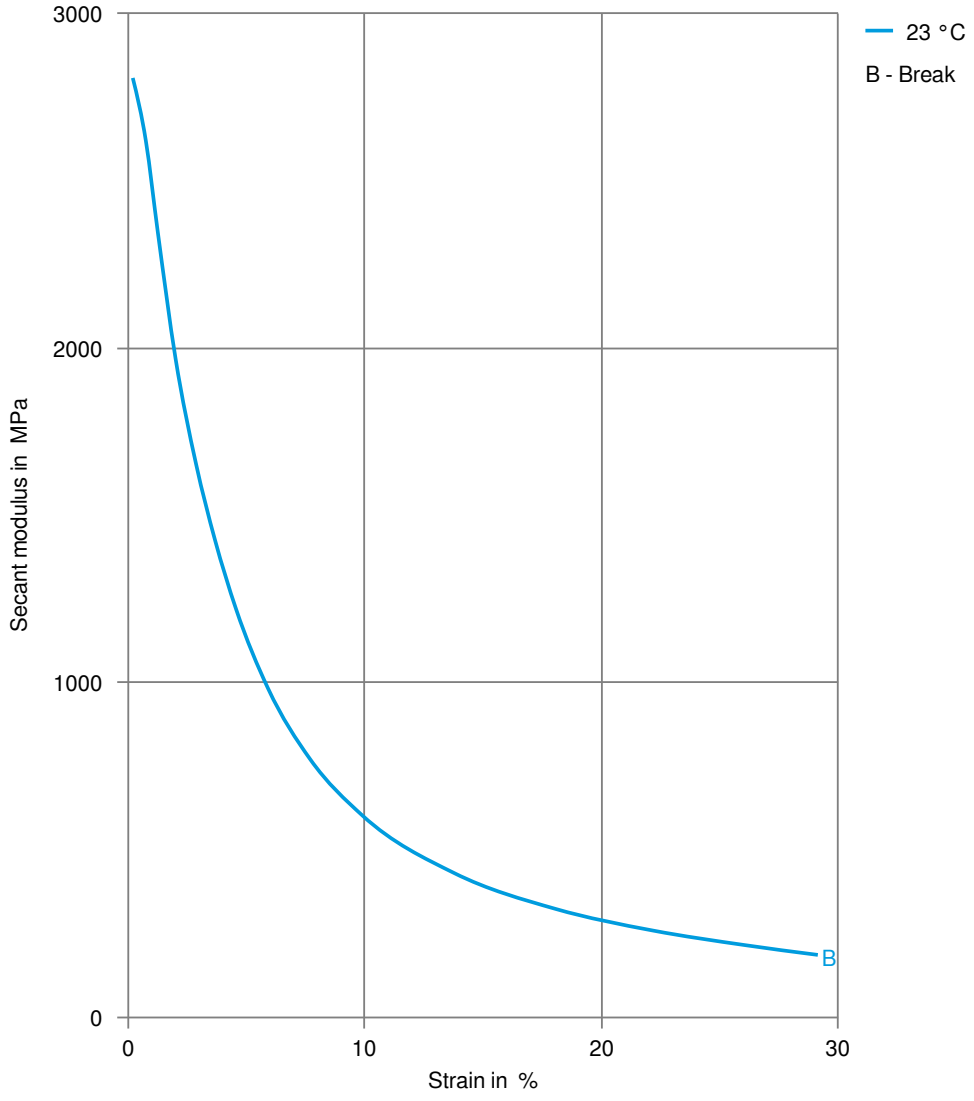
Secant modulus-strain



Revised: 2024-07-17 Source: Celanese Materials Database