Celanese
The chemistry inside innovation™

HOSTAFORM® LW90BSX

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Hostaform® LW90BSX is a specialty low wear grade of acetal copolymer designed for a wide range of tribological applications, including POM/POM pairings. This grade's low wear system includes silicone oil.

Product information

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

Rheological properties

Melt volume-flow rate	7	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	

Typical mechanical properties

Tensile modulus	2350	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	51	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	15	%	ISO 527-1/-2
Nominal strain at break	35	%	ISO 527-1/-2
Flexural modulus	2250	MPa	ISO 178
Charpy impact strength, 23°C	85	kJ/m^2	ISO 179/1eU
Charpy impact strength, -30°C	75	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	5.5	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 358/30	120	MPa	ISO 2039-1
Poisson's ratio	0.38[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	90	°C	ISO 75-1/-2

Physical/Other properties

Density	1370	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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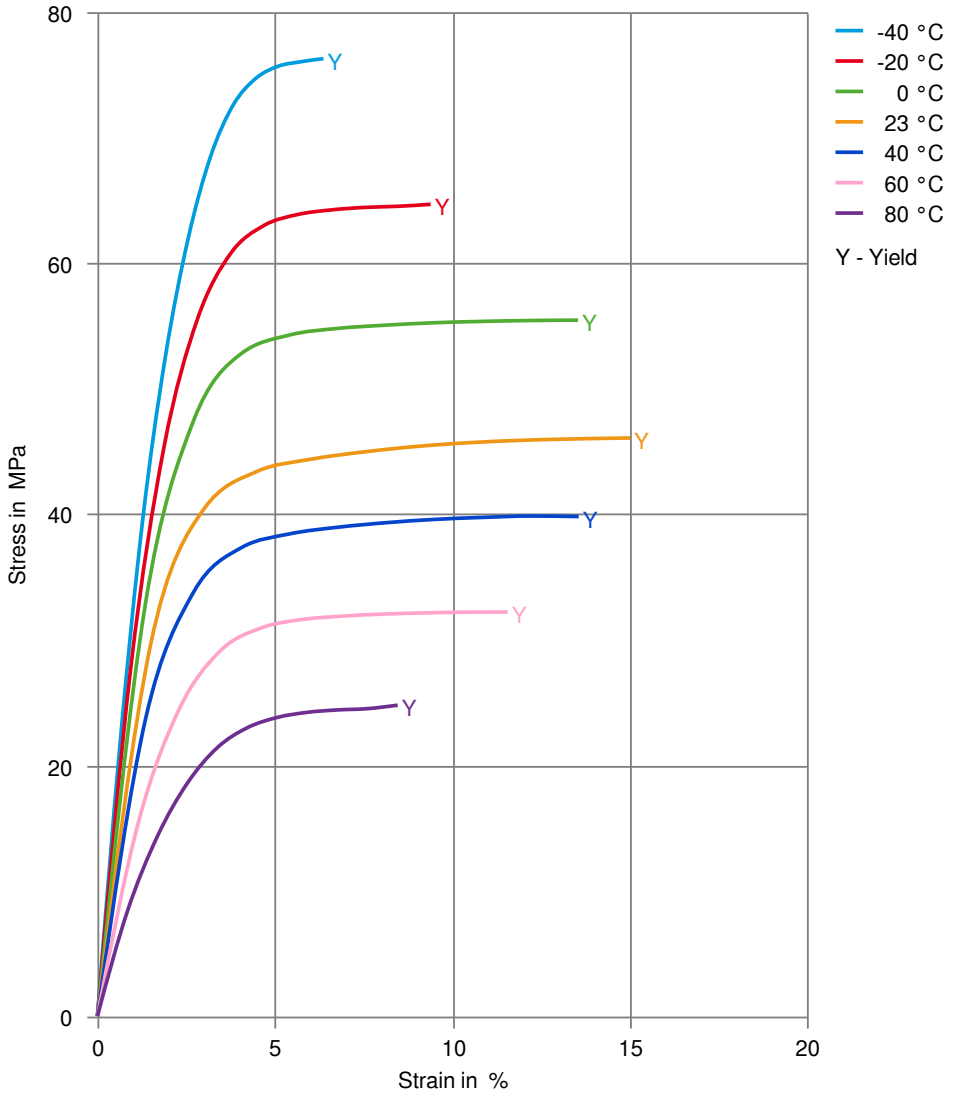
Stress-strain



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Secant modulus-strain