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	374	°F	
Load	4.76	lb	

Typical mechanical properties

Tensile modulus	341000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	7400	psi	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	326000	psi	ISO 178
Charpy impact strength, 23°C	40.4	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	35.7	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	2.62	$ftlb/in^2$	ISO 179/1eA
Ball indentation hardness, H 358/30	17400	psi	ISO 2039-1

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	194	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0495	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	392	°F
Min. melt temperature	374	°F
Max. melt temperature	410	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s
Back pressure	580	psi

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Characteristics

Processing	Injection Molding
Additives	Release agent
Special characteristics	Low wear / Low friction

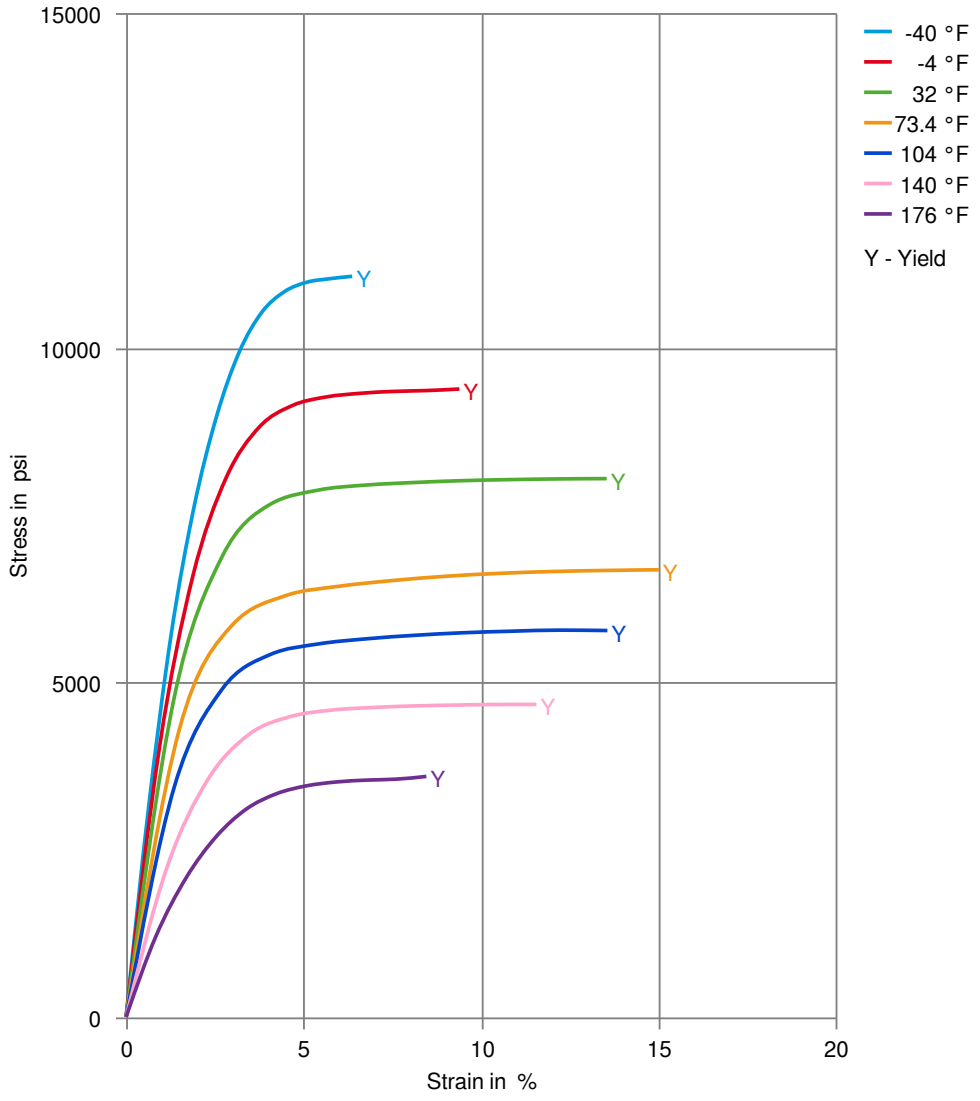
Additional information

Processing Notes

Storage

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

Stress-strain

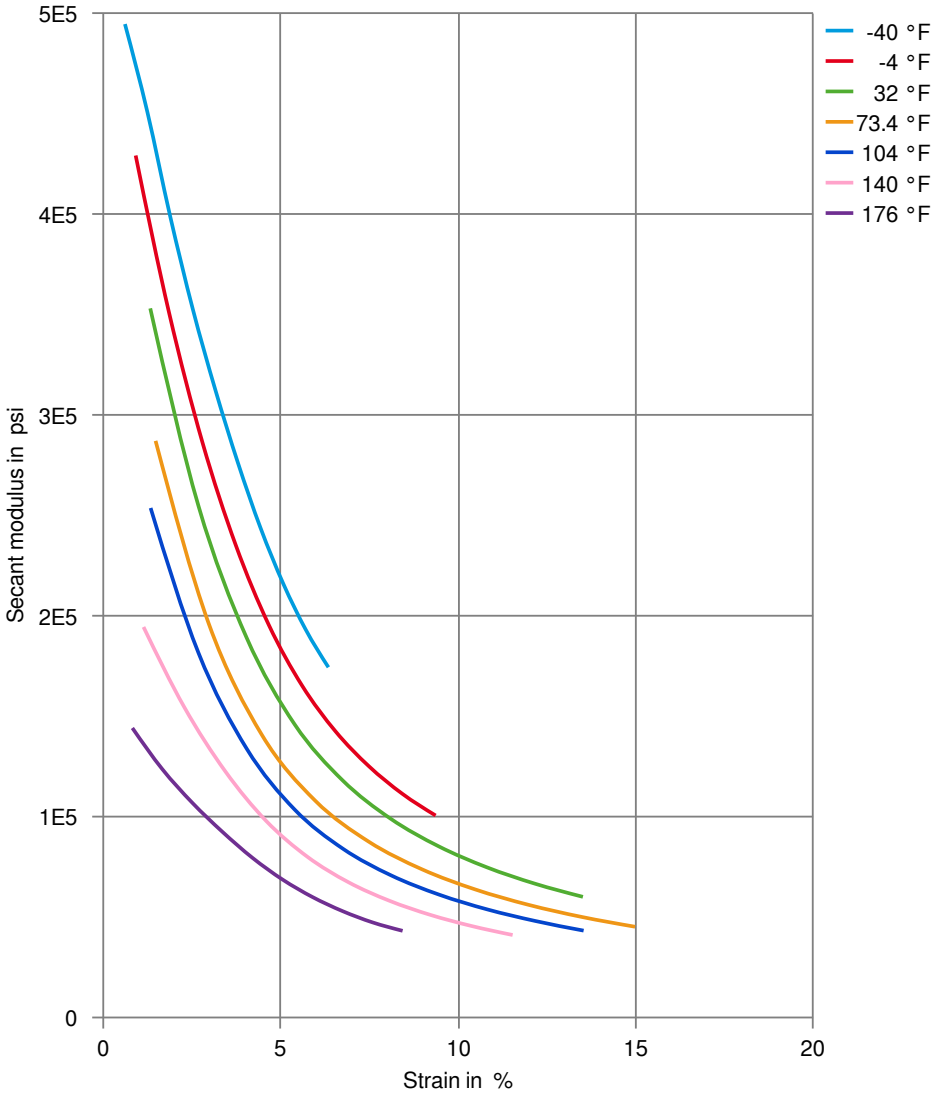


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Secant modulus-strain



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