HOSTAFORM® HL100

HOSTAFORM®

- High viscosity friction & wear polyacetal homopolymer
- non-silicon type special polymer modified wear-friction resistance grade for injection molding
- Designed for applications requiring reduced wear, low friction and low nois.

Product information

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

Rheological properties

Melt mass-flow rate	2.2	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	392000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20	%	ISO 527-1/-2
Nominal strain at break	43	%	ISO 527-1/-2
Flexural modulus	374000	psi	ISO 178
Flexural strength	12500	psi	ISO 178
Charpy impact strength, 23°C	N	ftlb/in^2	ISO 179/1eU
Charpy notched impact strength, 23°C	4.23	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	351	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	212	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0509	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	401	°F
Min. melt temperature	374	°F
Max. melt temperature	428	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°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

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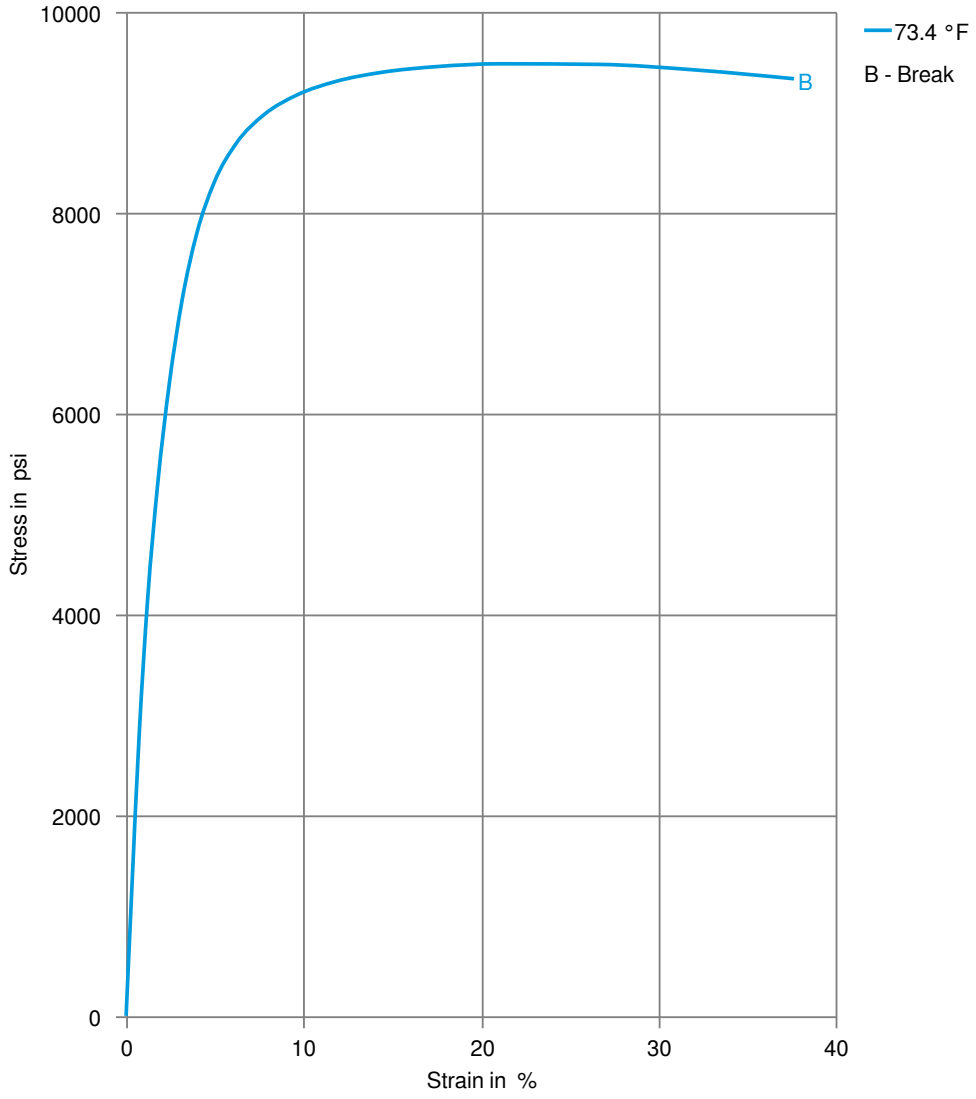
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Characteristics

Processing	Injection Molding
Special characteristics	Low wear / Low friction

Stress-strain

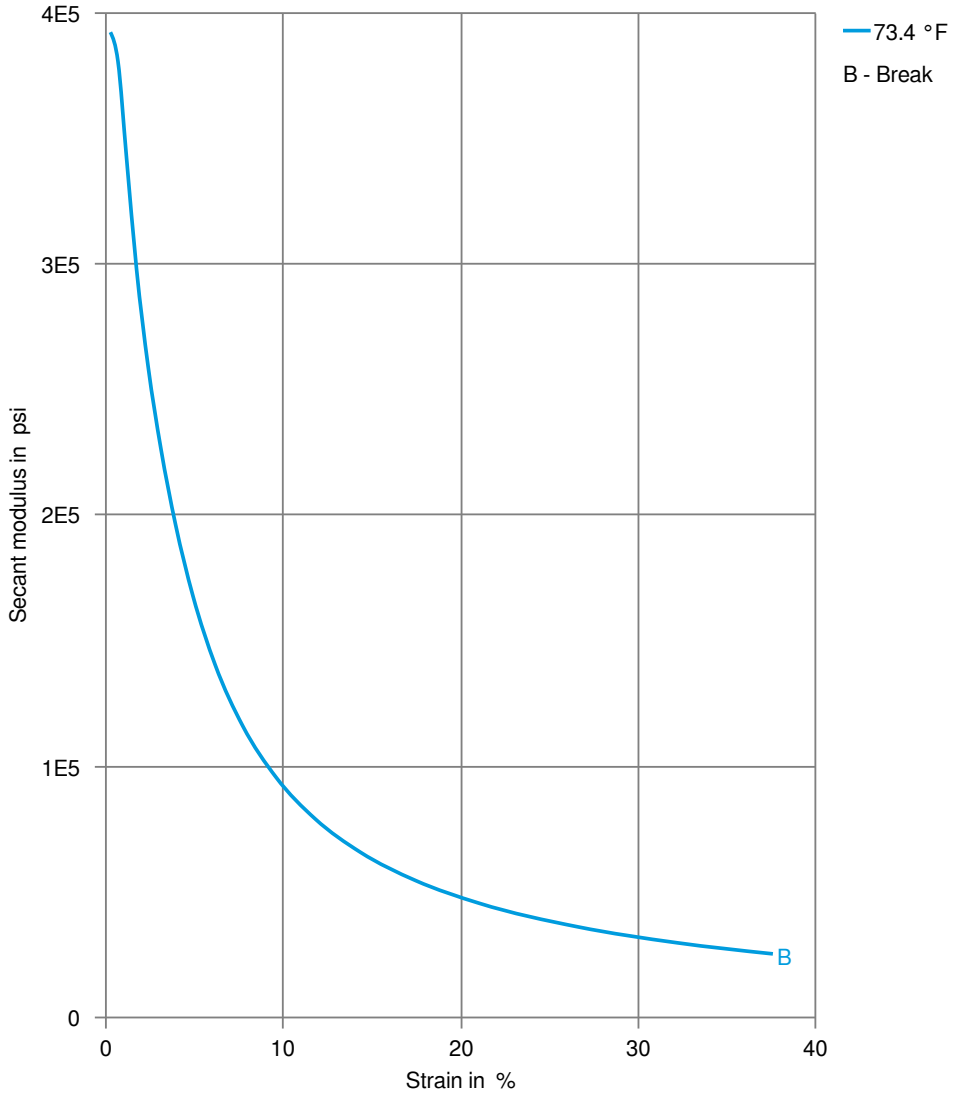


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Secant modulus-strain



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