HOSTAFORM® SlideX® C0313 XAP®2
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POM copolymer Injection molding grade with tribological modification for demanding applications that require prevention of audible noise caused by stick-slip phenomenon. Excellent tribological performance with low friction and low wear under various conditions of sliding against plastics and metals. Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg. Material is also food contact compliant in certain countries and for certain conditions of use (contact Celanese for further information).

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988-1: POM-K | M-GNRS2 | 4-2 | - | POM copolymer

Product information

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

Rheological properties

Melt volume-flow rate	13	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	392000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8700	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	13	%	ISO 527-1/-2
Nominal strain at break	40	%	ISO 527-1/-2
Flexural modulus	370000	psi	ISO 178
Compressive stress at 1% strain	3630	psi	ISO 604
Charpy impact strength, 23°C	71.4	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	66.6	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	2.85	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	2.85	$ftlb/in^2$	ISO 179/1eA
Ball indentation hardness, H 358/30	20300	psi	ISO 2039-1
Poisson's ratio	0.38[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	338	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	199	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	315	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.72	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.722	E-4/°F	ISO 11359-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	1.95	in/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.65	%	Sim. to ISO 62
Density	0.0505	lb/in³	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
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
Back pressure	4	psi
Ejection temperature	280	°F

Characteristics

Processing	Injection Molding
Delivery form	Granules
Special characteristics	Low wear / Low friction, Low emissions

Additional information

Injection molding

Processing

See Processing Guide and Involve Celanese FTS support to obtain best quality parts

Processing Notes

Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems

Storage

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

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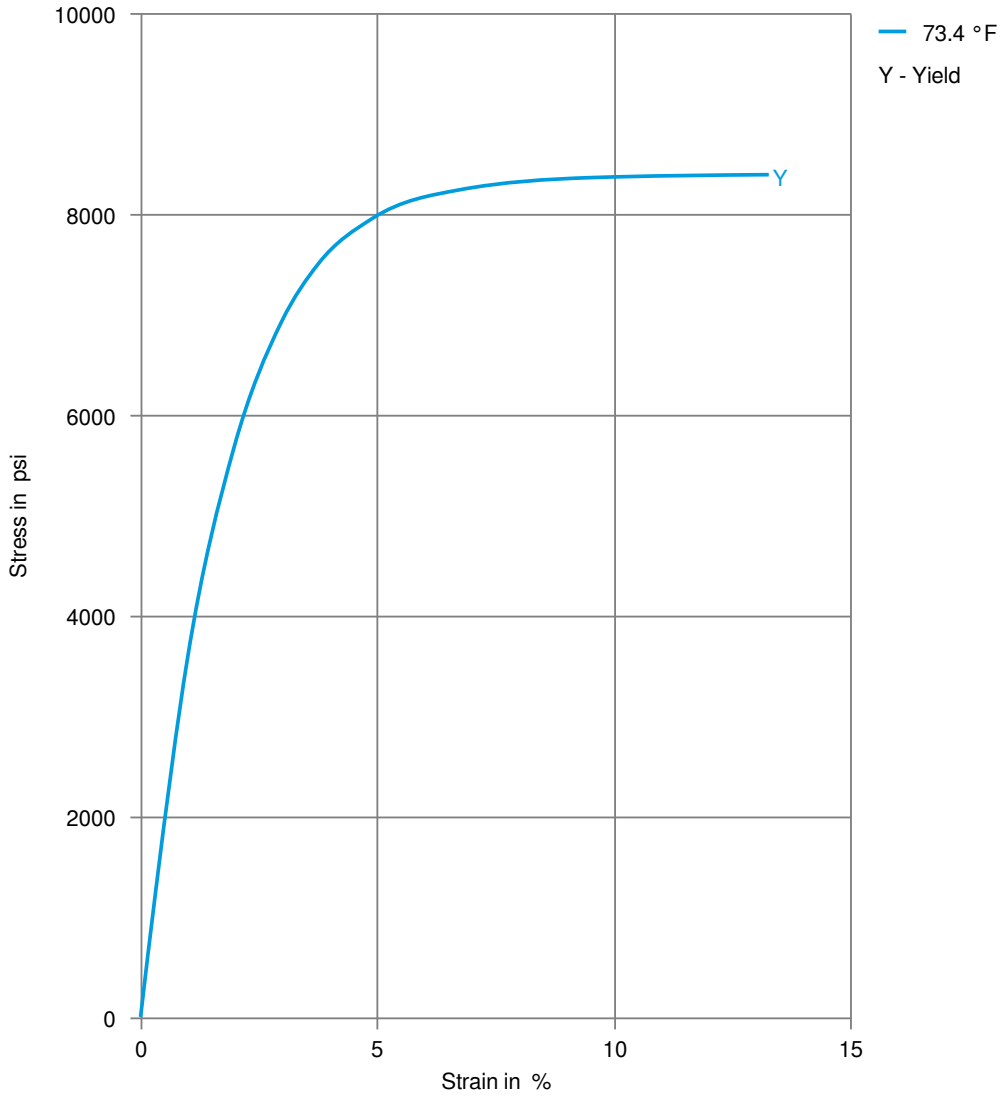
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Honda	Interior	
Hyundai	MS237-05 Type A-1	
Mercedes-Benz	DBL5404	BQF
VW Group	TL 524 76	Black Only -Porsche-Grammer-Ros- Center Console / Arm Rest-SlideX

Stress-strain



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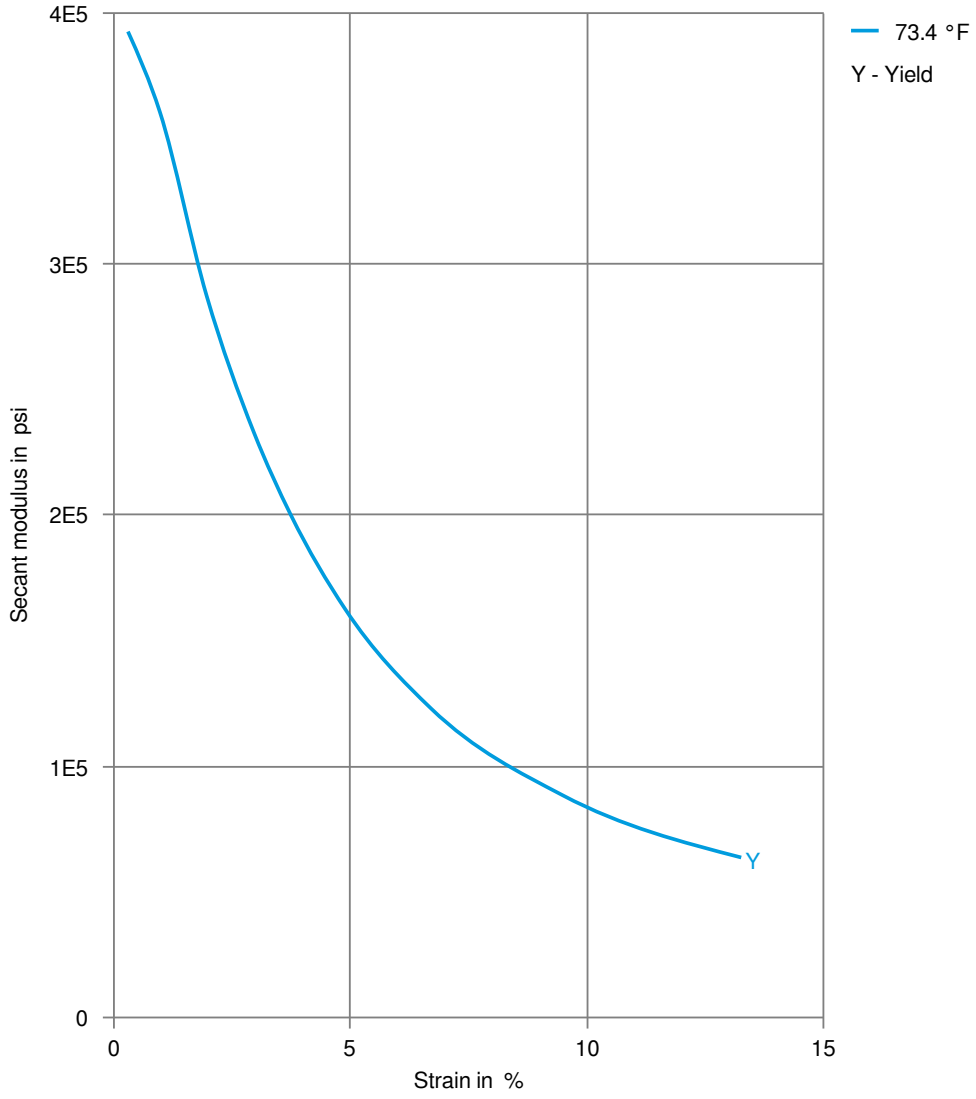
Secant modulus-strain



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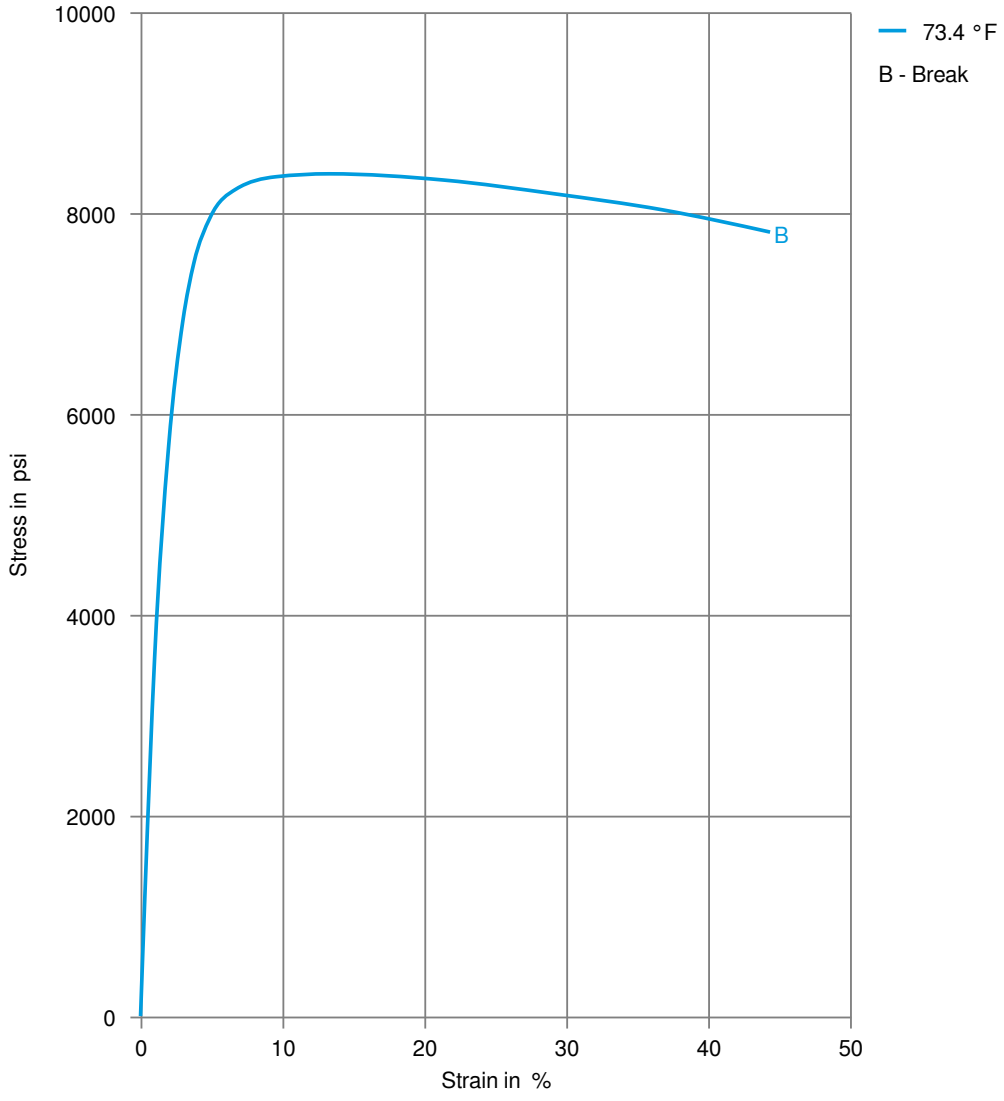
Stress-strain, 50mm/min



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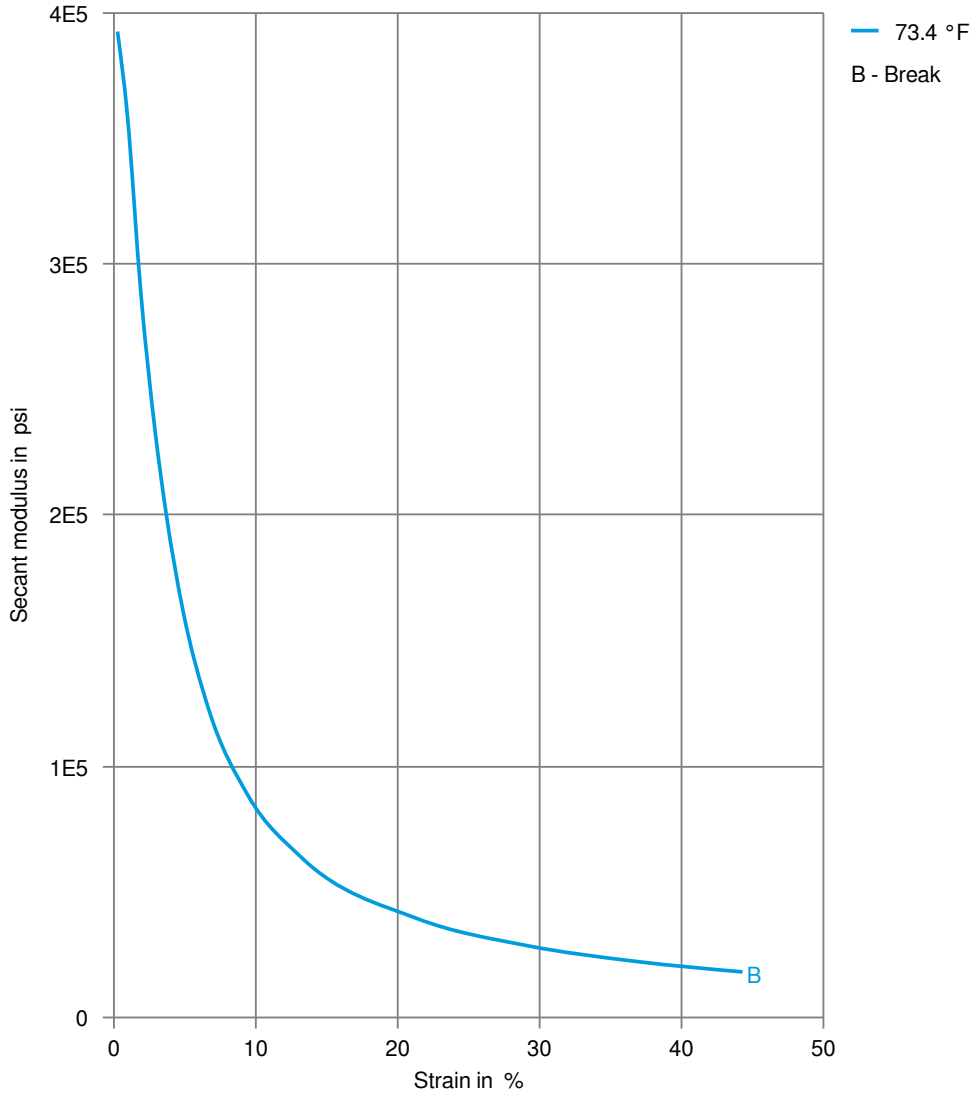
Secant modulus-strain, 50mm/min



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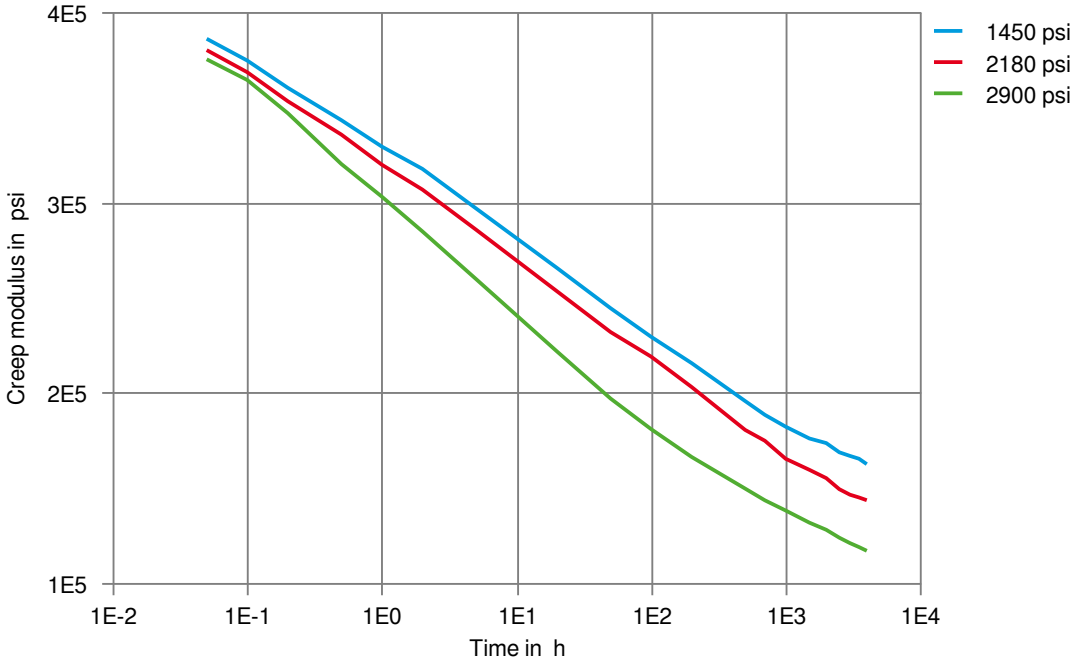
Creep modulus-time 73.4 °F



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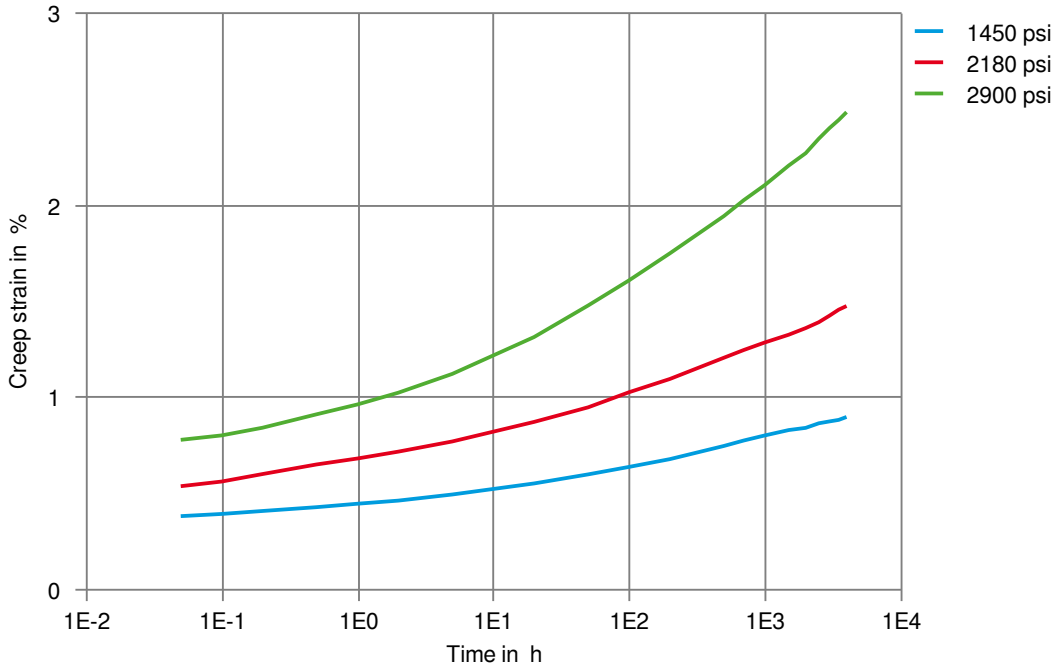

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