

# HOSTAFORM® SlideX® C0313 XAP®2

## HOSTAFORM®

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 <sup>3</sup> /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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	66.6 ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	2.85 ftlb/in <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	2.85 ftlb/in <sup>2</sup>	ISO 179/1eA
Ball indentation hardness, H 358/30	20300 psi	ISO 2039-1
Poisson's ratio	0.38 <sup>[C]</sup>	

[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

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### 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/in <sup>3</sup>	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

Honda

Hyundai

Mercedes-Benz

VW Group

### STANDARD

Interior

MS237-05 Type A-1

DBL5404

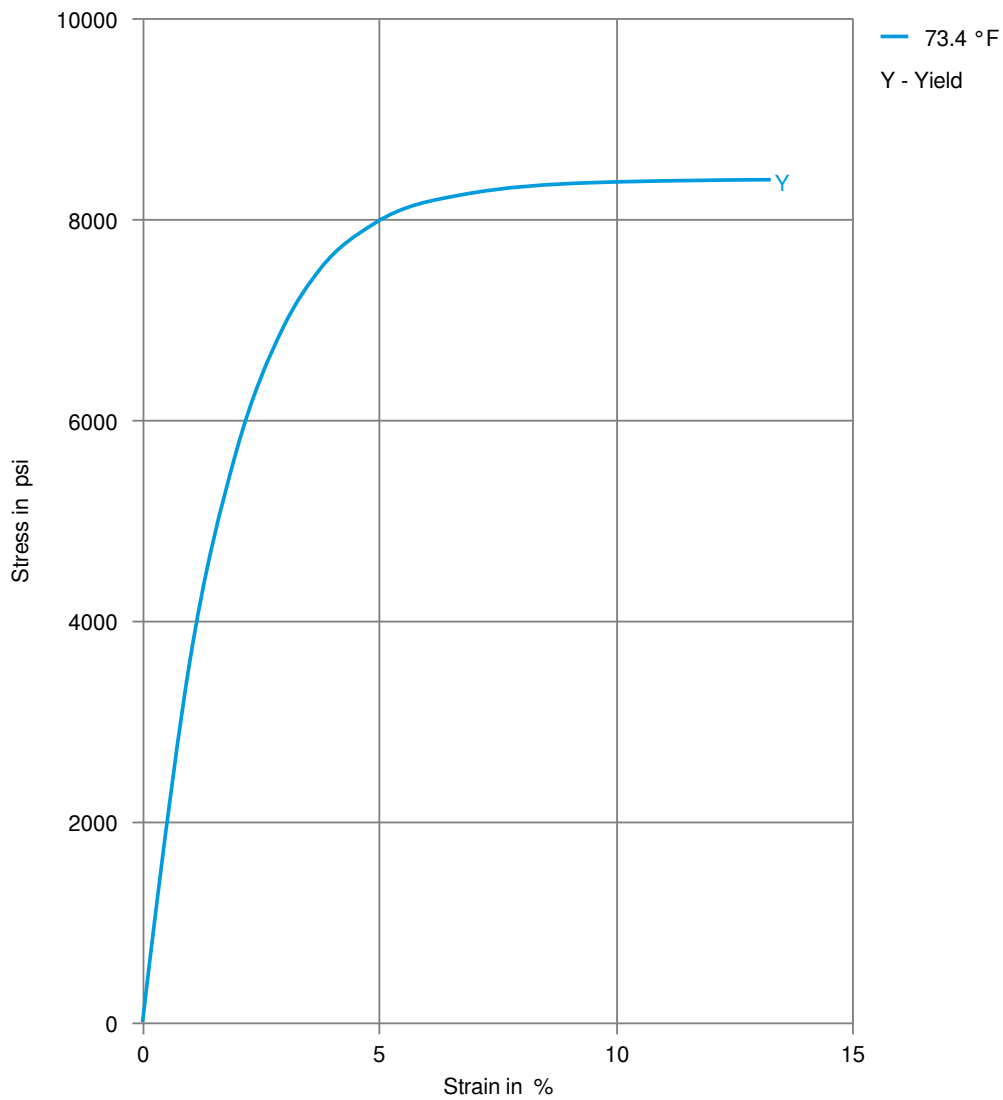
TL 524 76

### ADDITIONAL INFORMATION

BQF

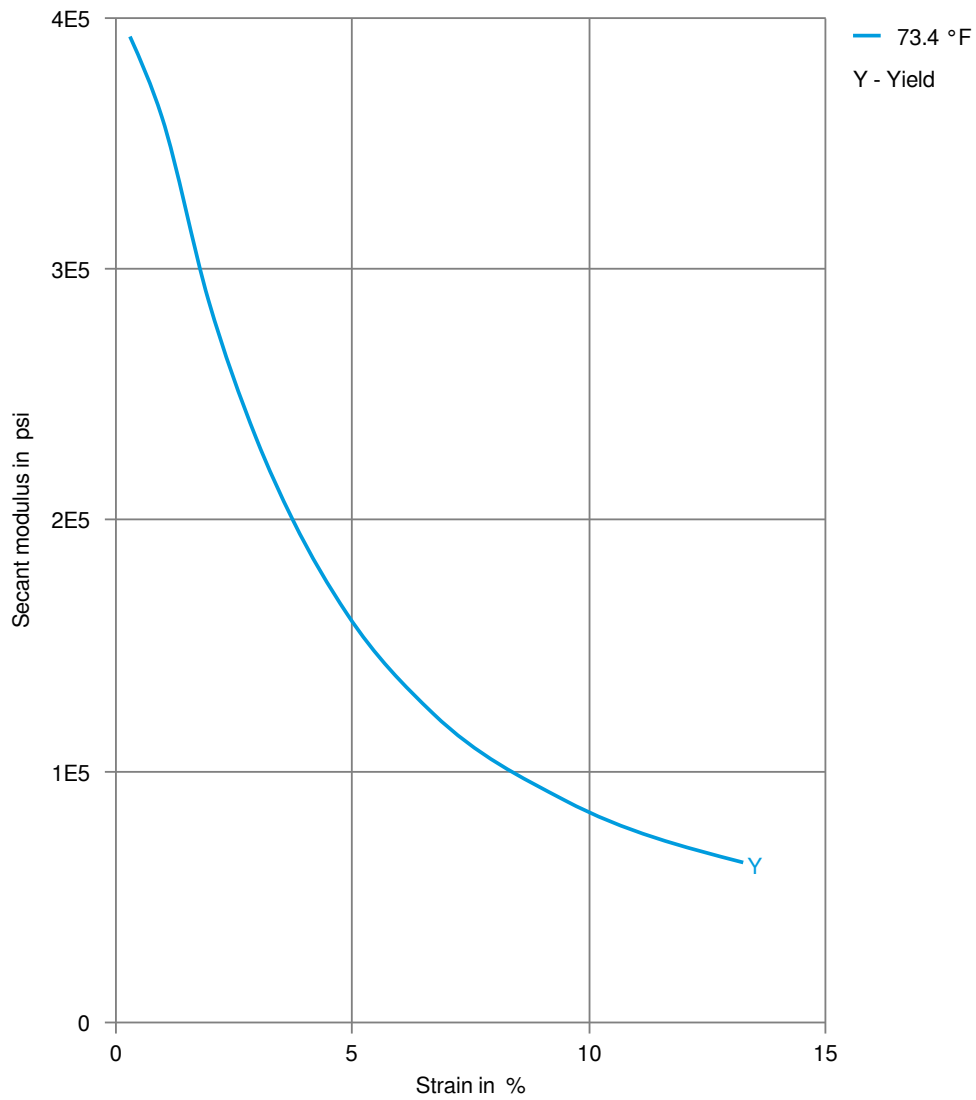
Black Only -Porsche-Grammer-Ros- Center  
Console / Arm Rest-SlideX

## Stress-strain



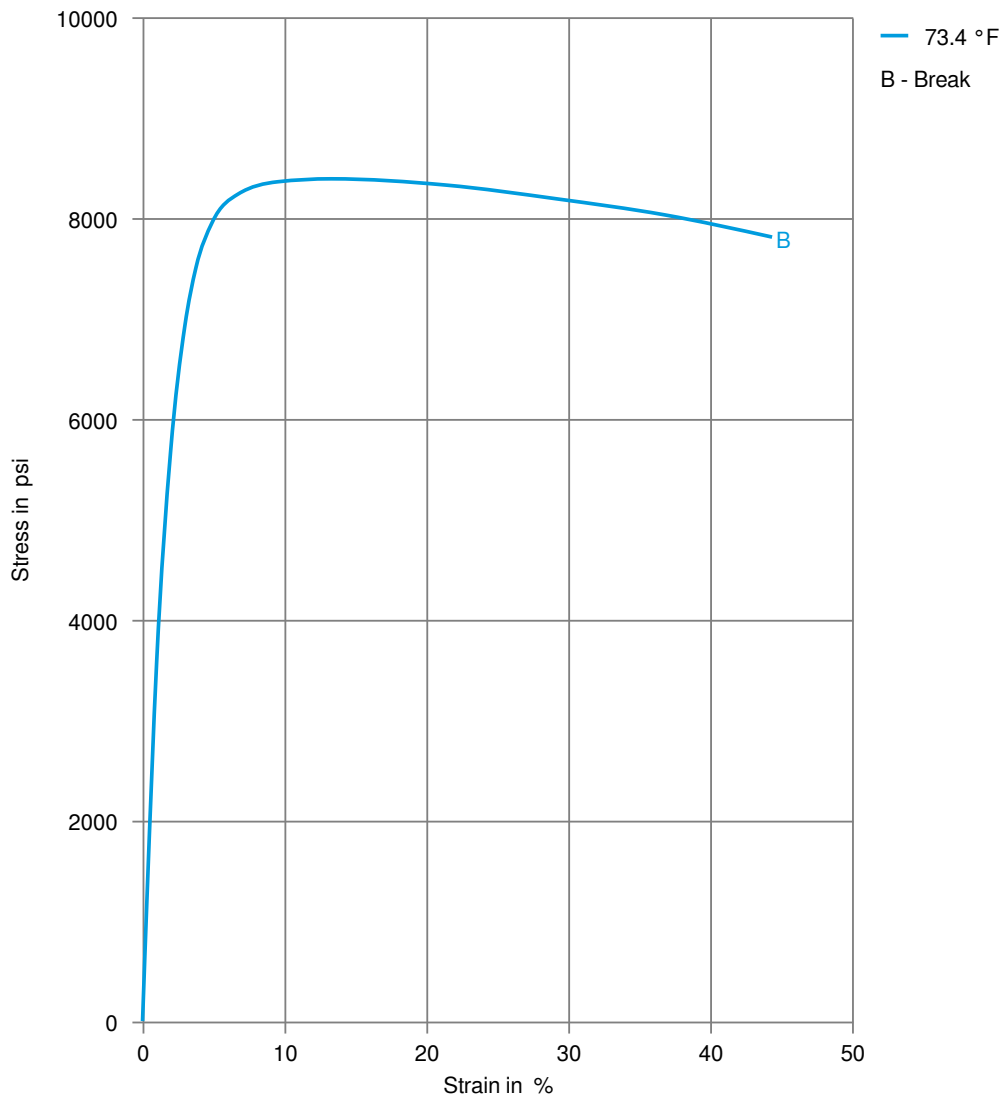
HOSTAFORM® SlideX® C0313 XAP®2  
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Secant modulus-strain



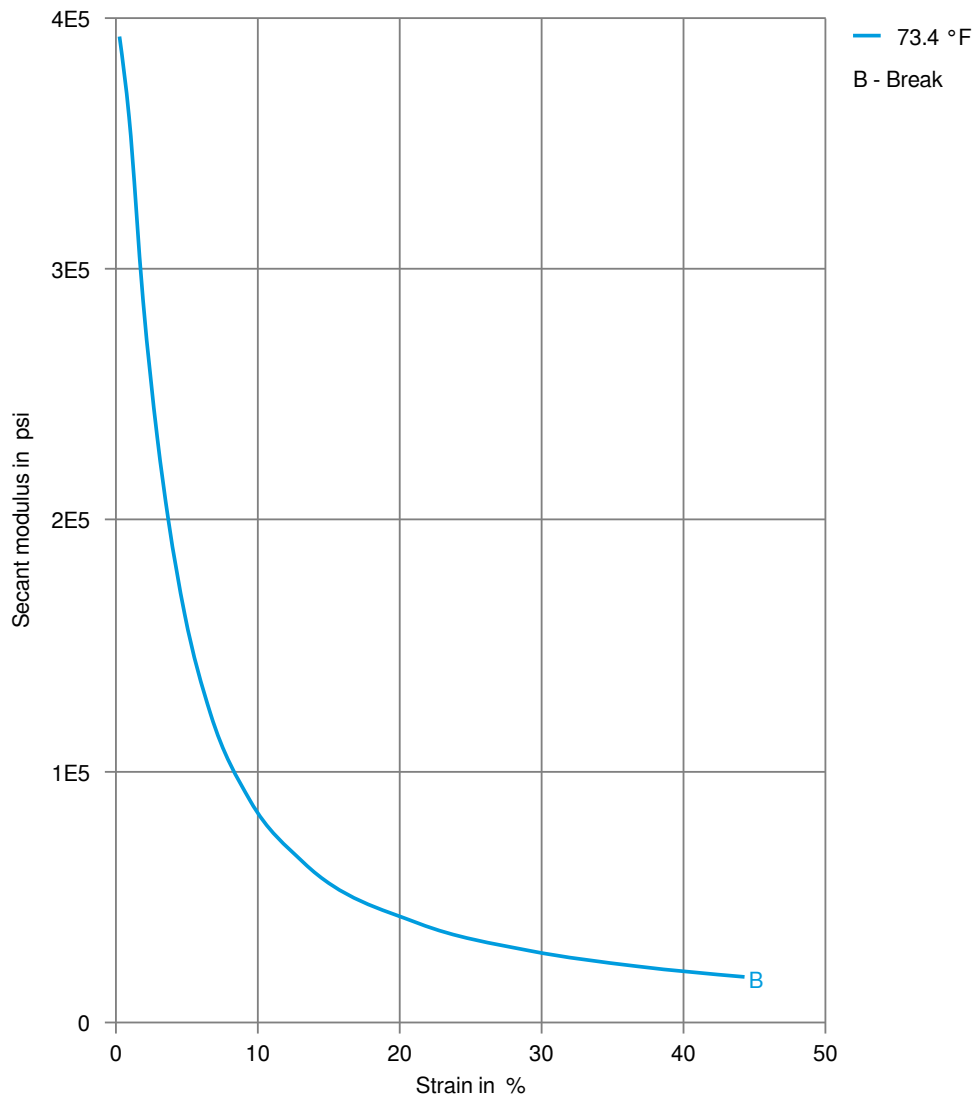
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Stress-strain, 50mm/min



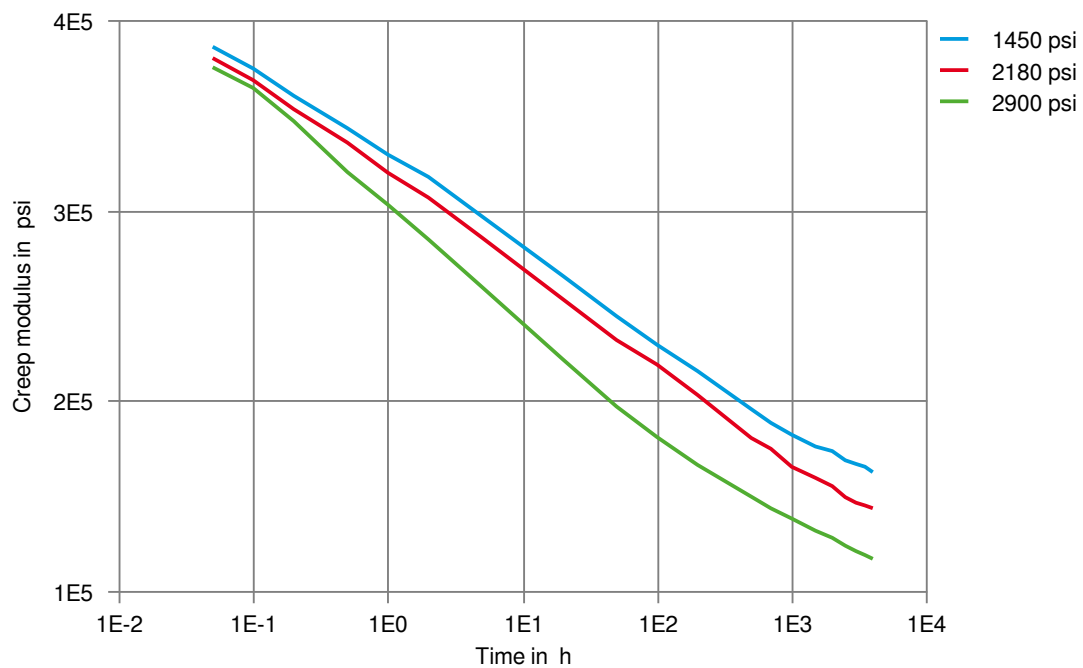
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Secant modulus-strain, 50mm/min



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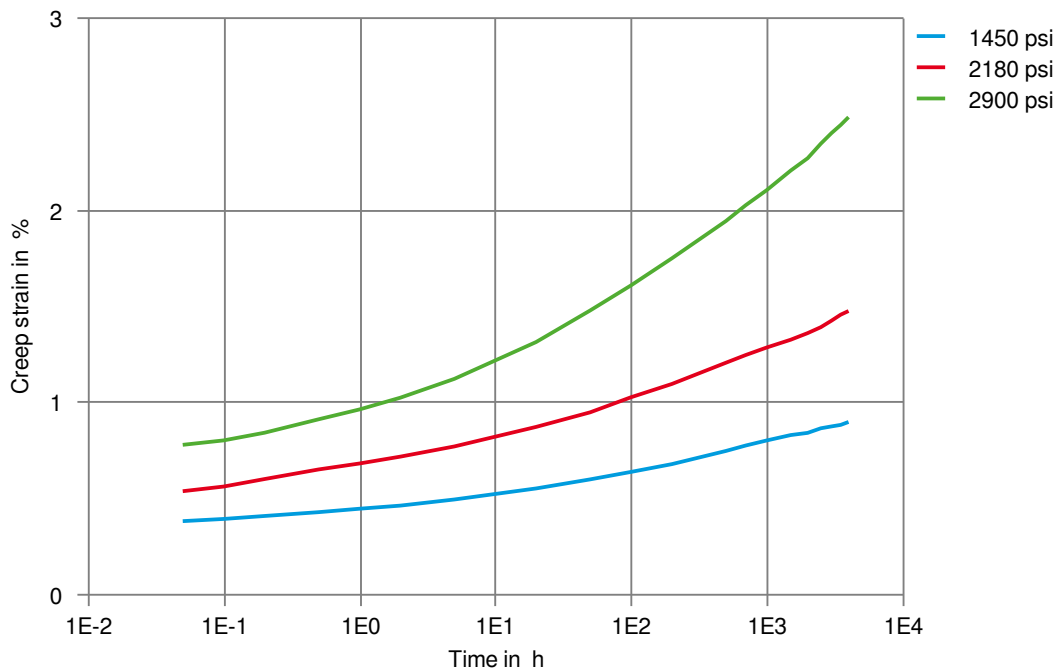
Creep modulus-time 73.4°F



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Creep strain-time 73.4 °F



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