HOSTAFORM® C 13031

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Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 04-002 POM copolymer Easy flowing Injection molding type like C 13021, but with higher strength, rigidity and hardness over the entire permissible temperature range for HOSTAFORM; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Monomers and additives are listed in EU-Regulation (EU) 10/2011 FDA compliant according to 21 CFR 177.2470 UL-registration for all colours and a thickness more than 1.5 mm as UL 94 HB; burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: For molded parts with higher requirements to strength, rigidity und hardness, ranges of applications with fuel contact. FDA = Food and Drug Administration (USA) UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

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

Rheological properties

Melt volume-flow rate	12	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	442000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9900	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	28	%	ISO 527-1/-2
Flexural modulus	435000	psi	ISO 178
Flexural stress at 3.5%	11300	psi	ISO 178
Compressive stress at 1% strain	4500	psi	ISO 604
Tensile creep modulus, 1h	399000	psi	ISO 899-1
Tensile creep modulus, 1000h	210000	psi	ISO 899-1
Charpy impact strength, 23°C	95.1	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	95.1	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	3.19	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	2.85	$ftlb/in^2$	ISO 179/1eA
Ball indentation hardness, H 358/30	22600	psi	ISO 2039-1
Poisson's ratio	0.428		

Thermal properties

Melting temperature, 10°C/min	338	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	225	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	322	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.61	E-4/°F	ISO 11359-1/-2
Thermal conductivity of melt	0.155	W/(m K)	ISO 22007-2

HOSTAFORM® C 13031

HOSTAFORM®

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.0591	in	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.1181	in	IEC 60695-11-10
UL recognition	yes		UL 94
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	1.93	in/min	ISO 3795 (FMVSS 302)

Electrical properties

Relative permittivity, 100Hz	4		IEC 62631-2-1
Relative permittivity, 1MHz	4		IEC 62631-2-1
Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	889	kV/in	IEC 60243-1
Comparative tracking index	600		IEC 60112

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.65	%	Sim. to ISO 62
Density	0.0509	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
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)	2h²-3	s
Back pressure	580	psi
Ejection temperature	277	°F

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN22-O025	Natural
Bosch	N28 BN22-O025	Black

HOSTAFORM® C 13031

HOSTAFORM®

Continental	TST N 055 54.11	
Continental	TST N 055 54.11	(TST N 055 54.11-001)
Continental	TST N 055 54.30	
Ford	WSK-M4D635-A2	Natural
Ford	WSK-M4D635-A2	Black 12
General Motors	GMW22P-POM-C3	Black
General Motors	GMW22P-POM-C3	Natural
Li Auto	Q/LiA5310020	2021 (V2)
Mercedes-Benz		Fuel (Black)
Mercedes-Benz		Fuel (Natural)
Mercedes-Benz	DBL5405-06-POM-C	Natural
Renault	UB03f, No Spec, Special Part Approval, See Your CE Account Manager.	
Stellantis	B62 0300 / 61/213E-213M-/H0506E/H0509G	01994_14_00057, CPN4270 NATURAL
Stellantis - Chrysler	MS.50095 / CPN-4270	Natural;01994_14_00057, CPN4270 NATURAL
VW Group	TL 526 36A	
VW Group	TL 526 36C	

Characteristics

Processing	Injection Molding
Additives	Release agent

Additional information

Injection molding

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Postprocessing

Conditioning e.g. moisturizing is not necessary.

HOSTAFORM® C 13031

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Processing Notes

HOSTAFORM® C 13031

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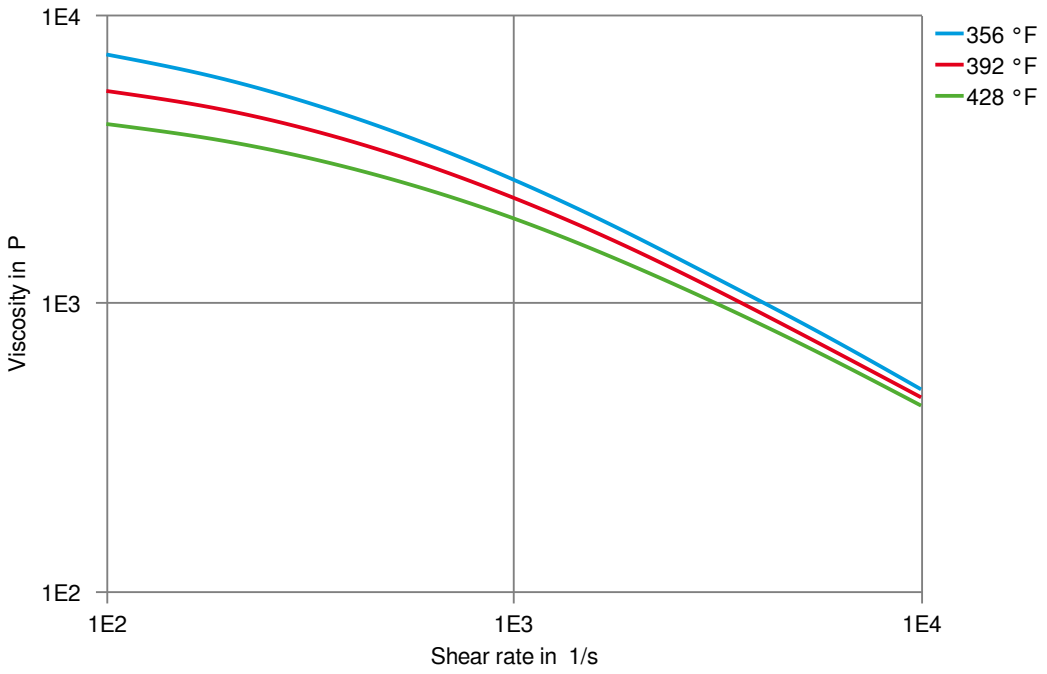
Pre-Drying

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.

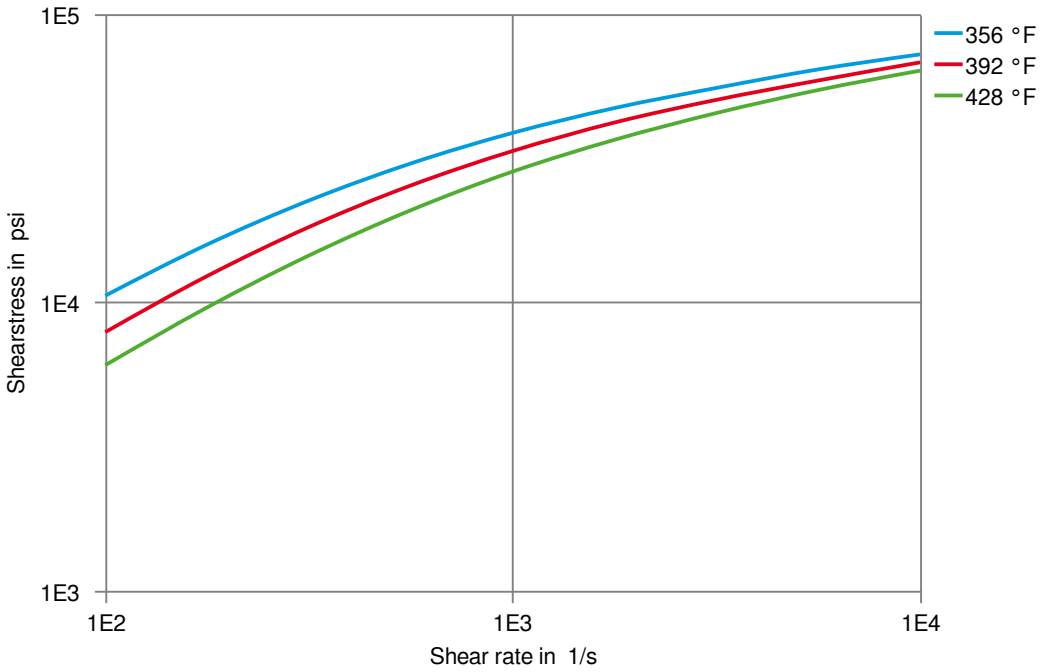
Viscosity-shear rate



HOSTAFORM® C 13031

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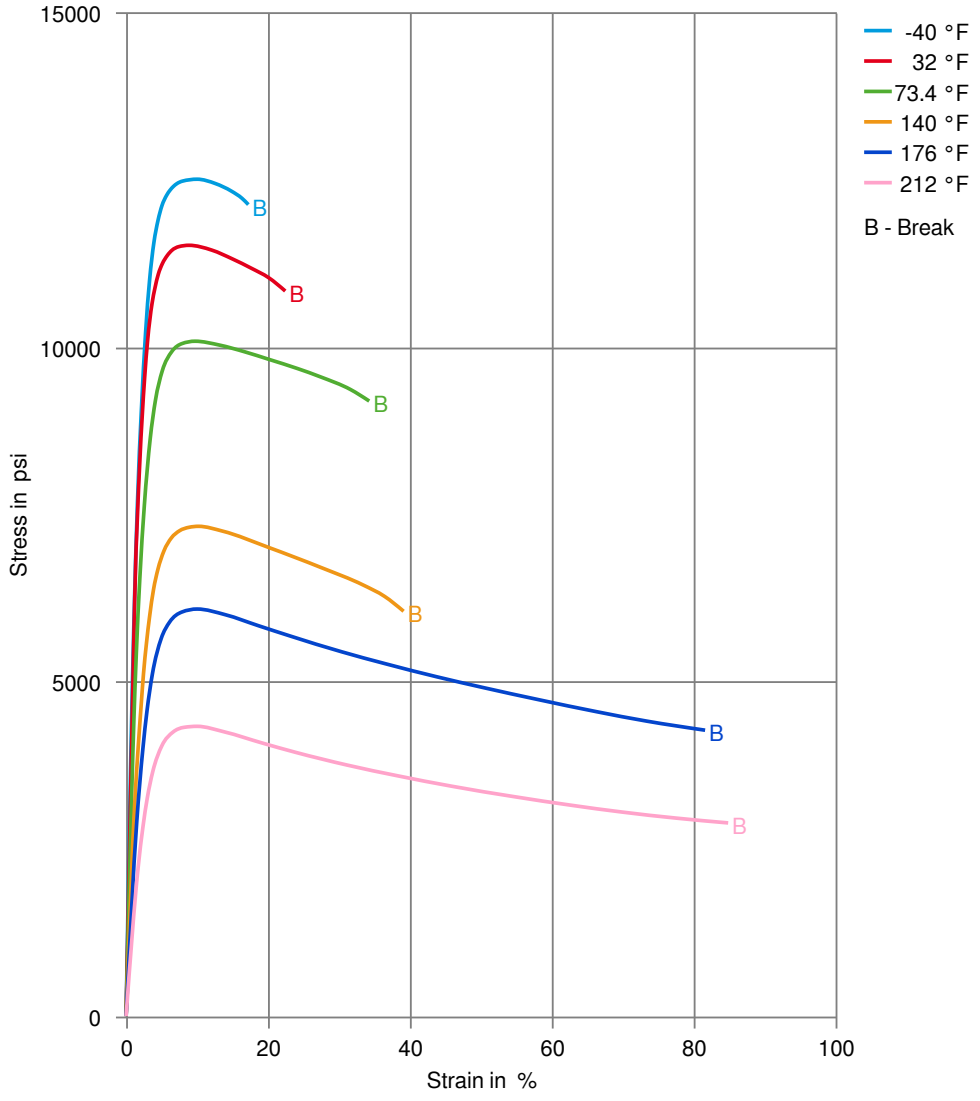
Shearstress-shear rate



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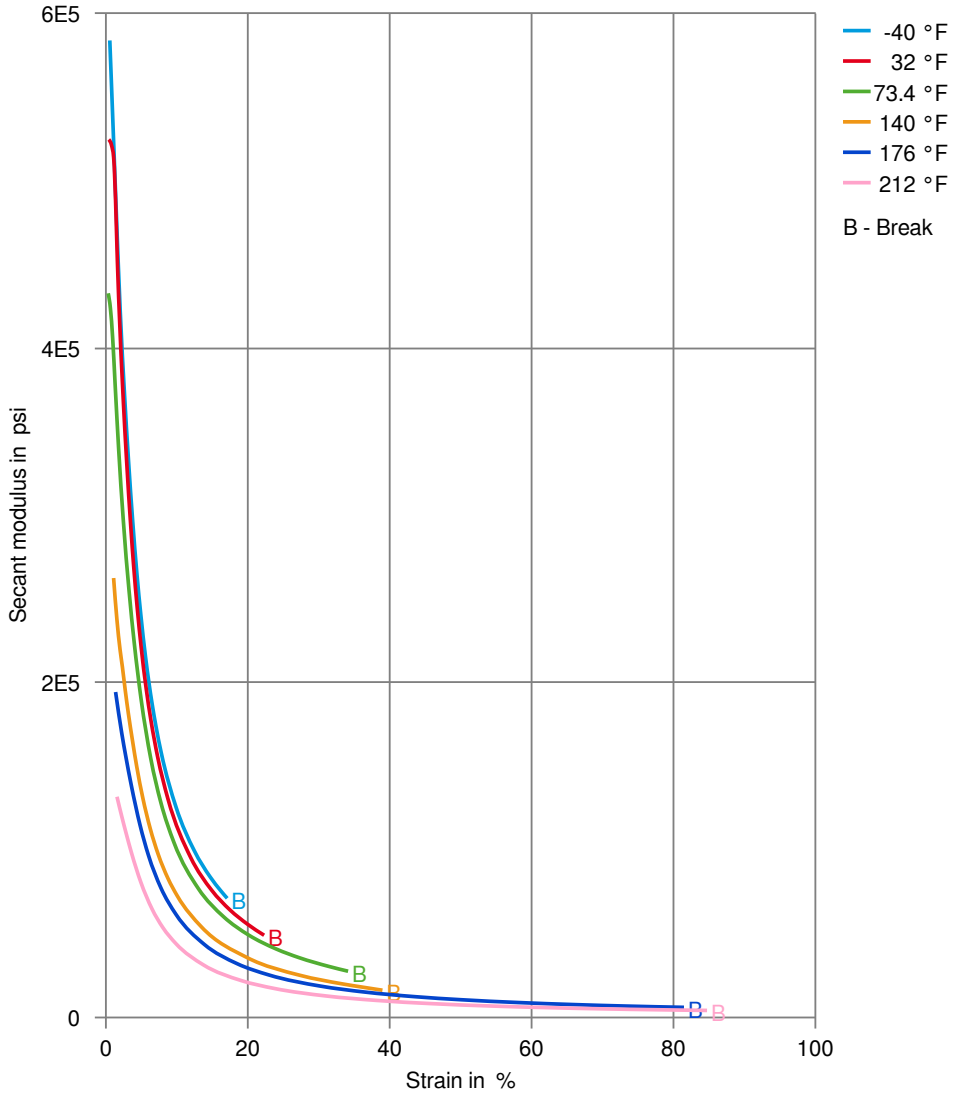
Stress-strain



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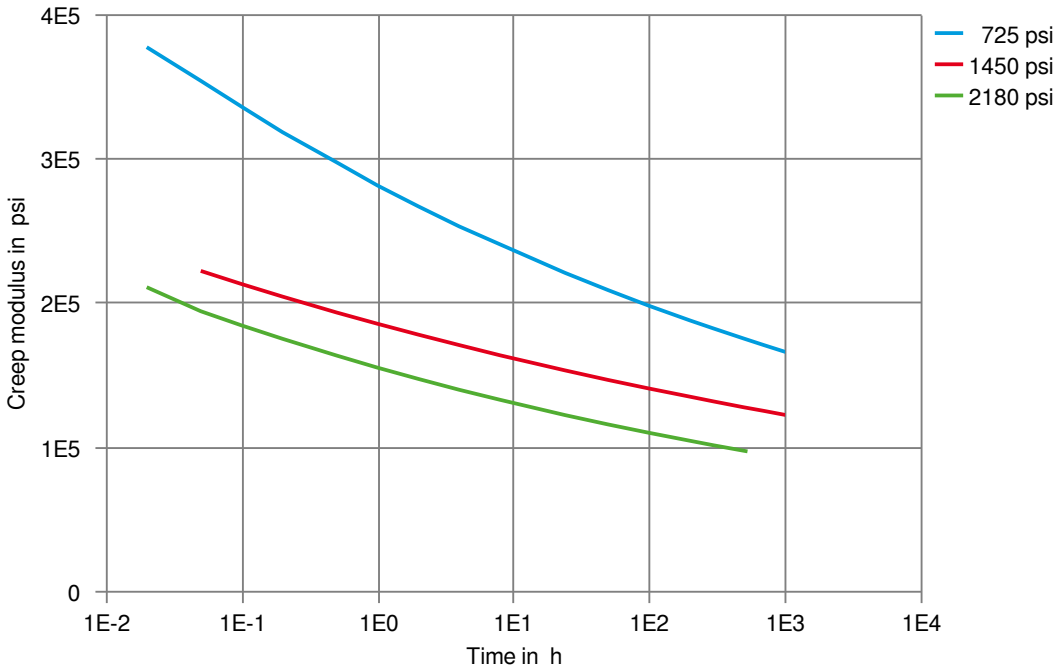
Secant modulus-strain



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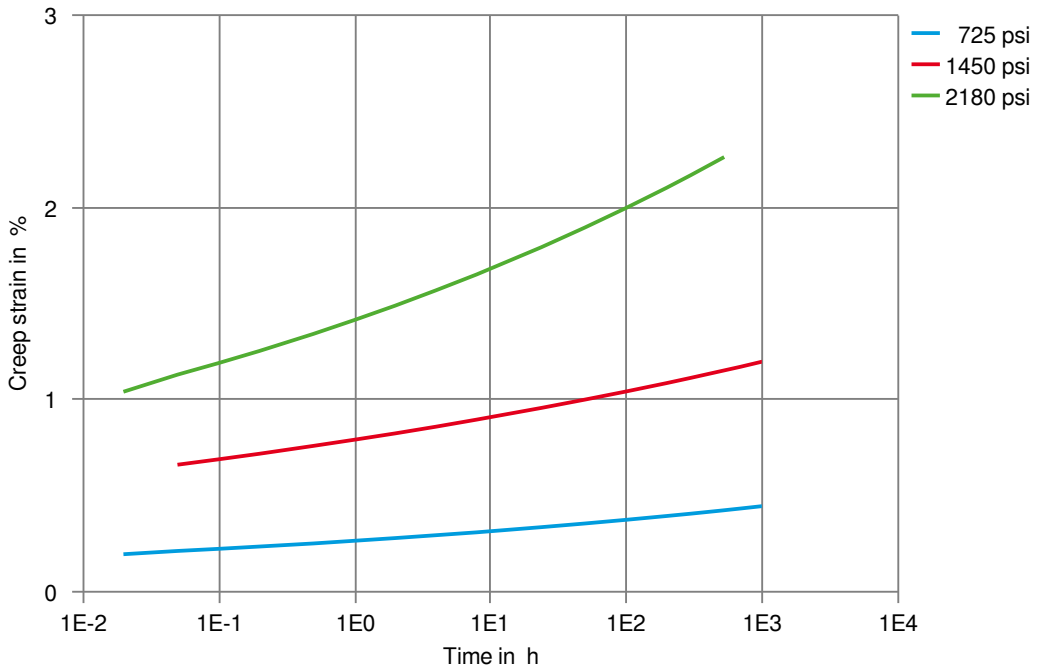
Creep modulus-time 176 °F



HOSTAFORM® C 13031

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Creep strain-time 176 °F



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