HOSTAFORM® C 9021 M XAP®2

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POM copolymer
Injection molding type, modified with molybdenum disulphide; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.
Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg
Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm.
Ranges of applications: For sliding combinations with high surface pressure and low sliding speed, only slight tendency to stick-slip.
Preliminary Datasheet

Product information

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

Rheological properties

Melt volume-flow rate	8.5	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	384000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9300	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	20	%	ISO 527-1/-2
Flexural modulus	377000	psi	ISO 178
Flexural strength	9430	psi	ISO 178
Tensile creep modulus, 1h	334000	psi	ISO 899-1
Tensile creep modulus, 1000h	160000	psi	ISO 899-1
Charpy impact strength, 23°C	57.1	ftlb/in^2	ISO 179/1eU
Charpy impact strength, -30°C	57.1	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

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	212	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.61	E-4/°F	ISO 11359-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	2.91	in/min	ISO 3795 (FMVSS 302)

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Electrical properties

Relative permittivity, 100Hz	4.2		IEC 62631-2-1
Relative permittivity, 1MHz	4.2		IEC 62631-2-1
Dissipation factor, 100Hz	25	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	80	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	0.75	%	Sim. to ISO 62
Density	0.0513	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	290	psi

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS97014	2014-04
Mercedes-Benz	DBL5404	BQF

Characteristics

Processing	Injection Molding, Other Extrusion
Special characteristics	Low wear / Low friction, Low emissions

Additional information

Processing Notes

Pre-Drying

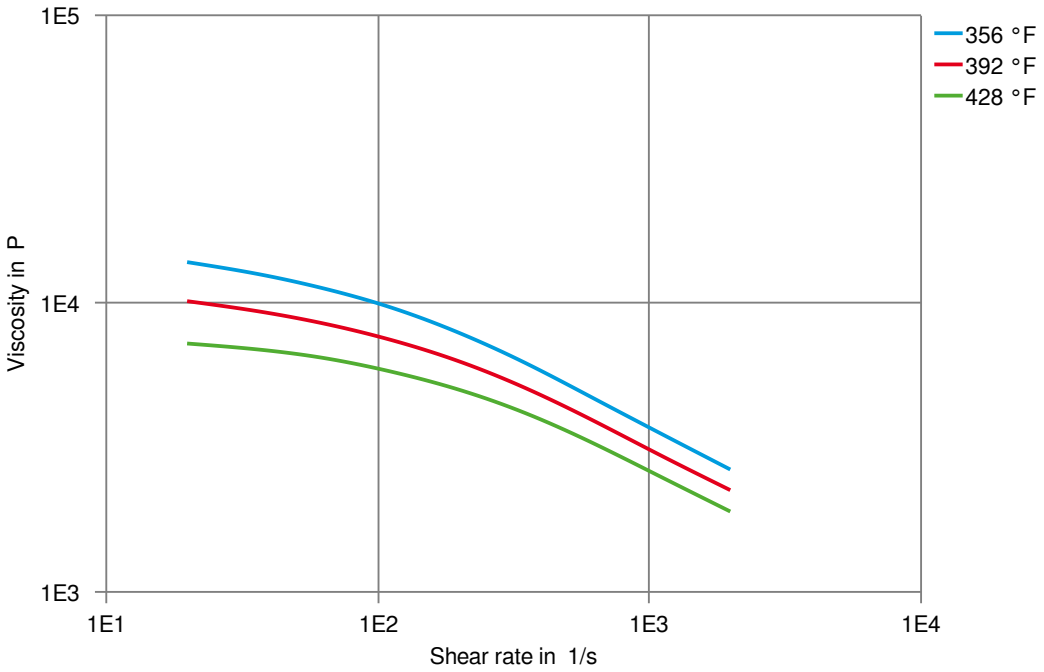
Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be

necessary to prevent splay and odor problems.

Storage

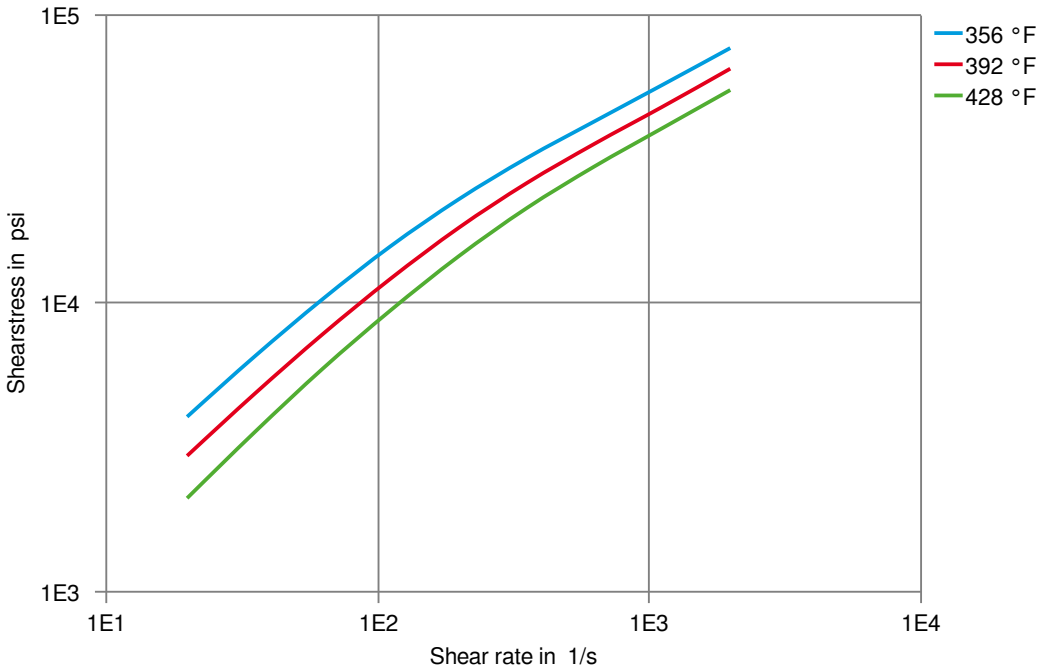
The product can then be stored in standard conditions until processed.

Viscosity-shear rate



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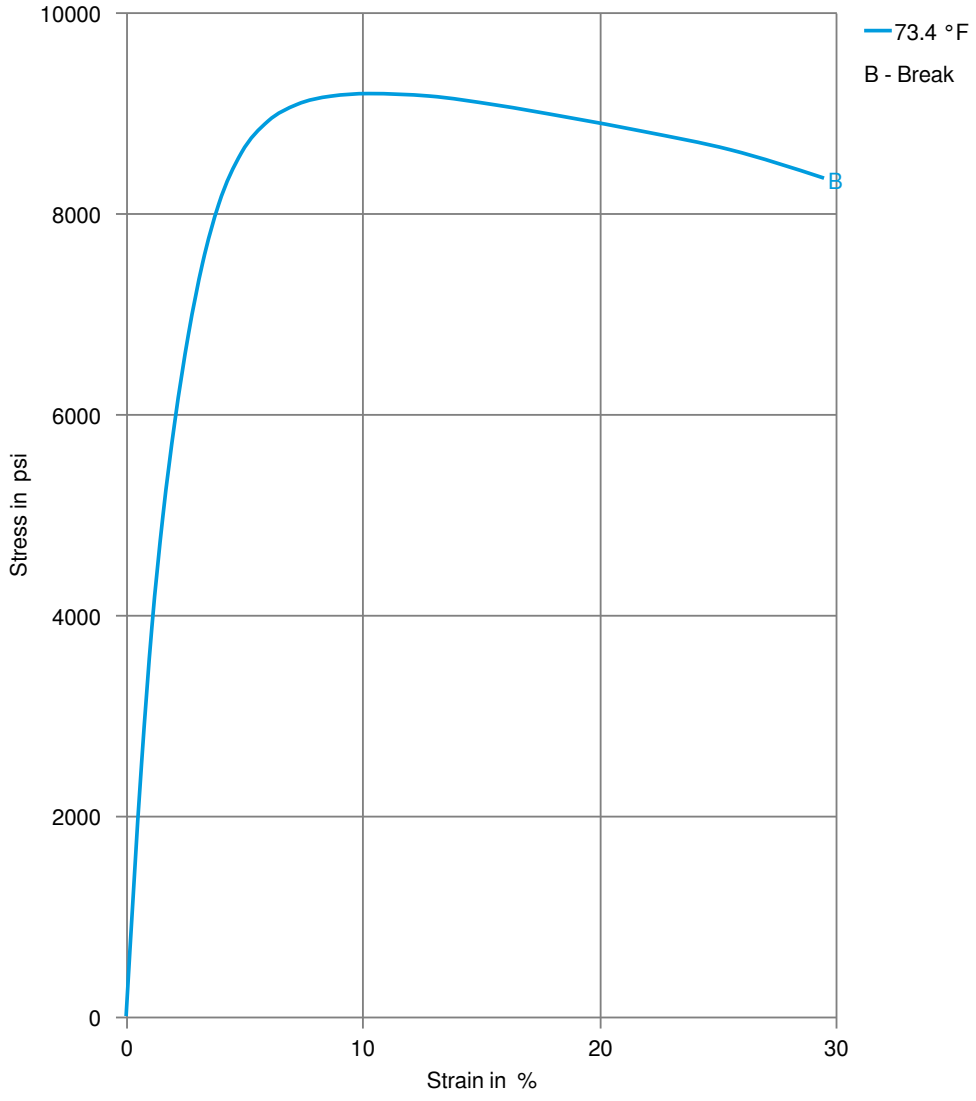
Shearstress-shear rate



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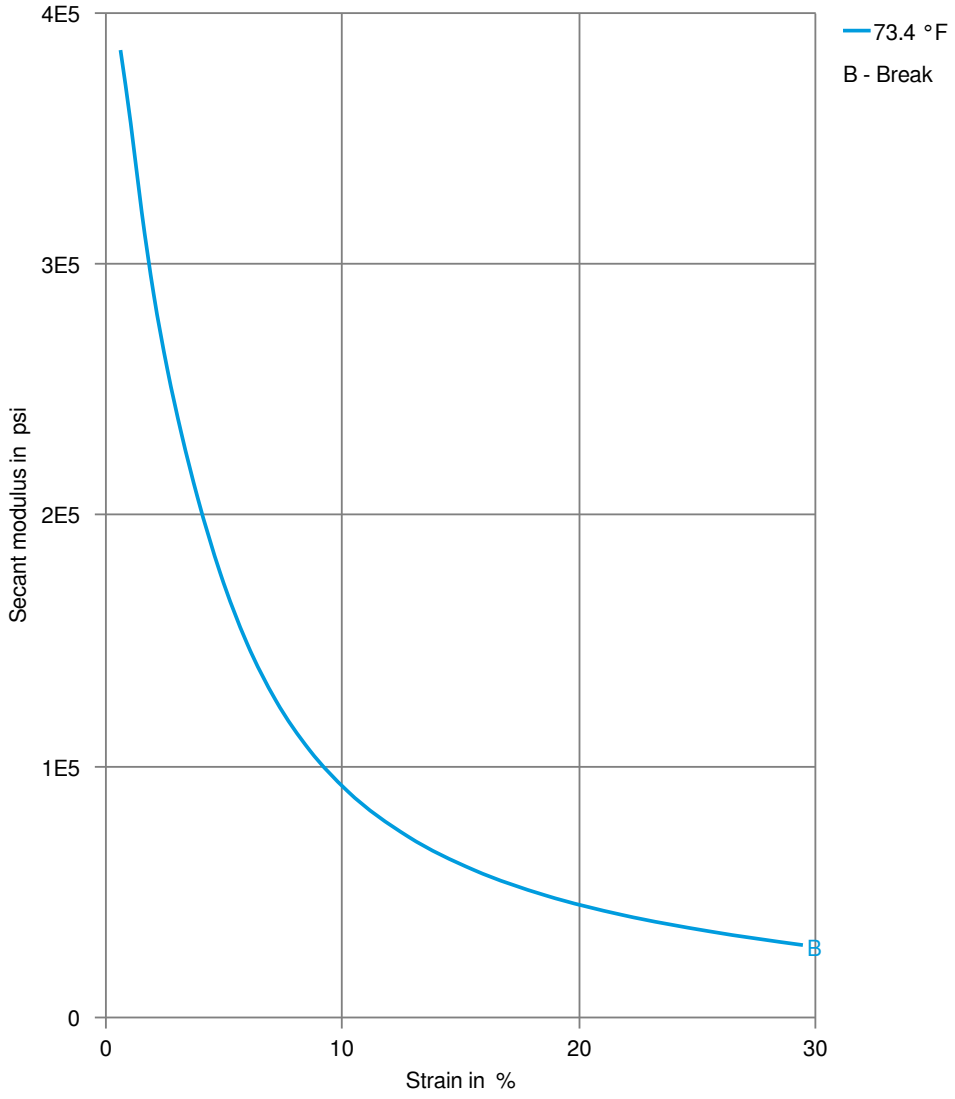
Stress-strain



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Secant modulus-strain



Revised: 2026-08-12 Source: Celanese Materials Database

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