

HOSTAFORM® C 9021 SW XAP®2 LS

Tribological; Low Emission

Chemical abbreviation according to ISO 1043-1: POM-KD10

Molding compound ISO 29988-POM-K,KD10,GLNRS2,3-2

POM copolymer Injection molding type, special modified with anti-friction additives for prevention of squeaking noise; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Ranges of applications: For sliding combinations with low wear and low coefficient of friction, prevents squeaking noise. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1,5 mm. Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg Preliminary Datasheet

Product information

Part Marking Code	POM-KD10	ISO 11469
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Rheological properties

Melt volume-flow rate	7 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

Typical mechanical properties

Tensile Modulus	2700 MPa	ISO 527-1/-2
Yield stress, 50mm/min	52 MPa	ISO 527-1/-2
Yield strain, 50mm/min	7 %	ISO 527-1/-2
Nominal strain at break	16 %	ISO 527-1/-2
Flexural Modulus	2600 MPa	ISO 178
Flexural Strength	63 MPa	ISO 178
Charpy impact strength, 23°C	90 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	85 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	135 MPa	ISO 2039-1

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	80 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	140 °C	ISO 306
Coeff. of linear therm. expansion, parallel	120 E-6/K	ISO 11359-1/-2

Other properties

Density	1420 kg/m ³	ISO 1183
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Injection

Drying Temperature	100 - 120 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	0.15 %
Screw tangential speed	0.2 - 0.21 m/s
Max. mould temperature	80 - 120 °C
Back pressure	2 MPa
Injection speed	slow

Characteristics

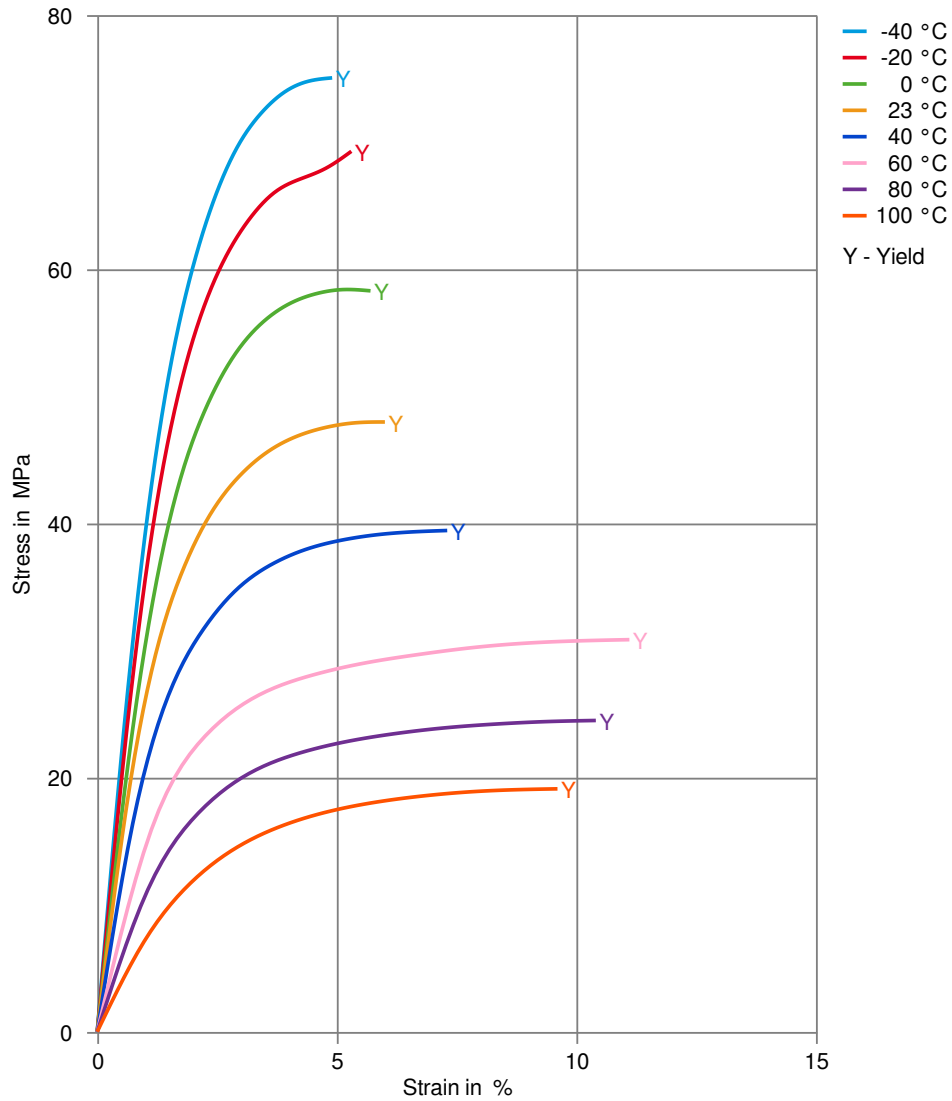
Additives

Release agent



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Stress-strain

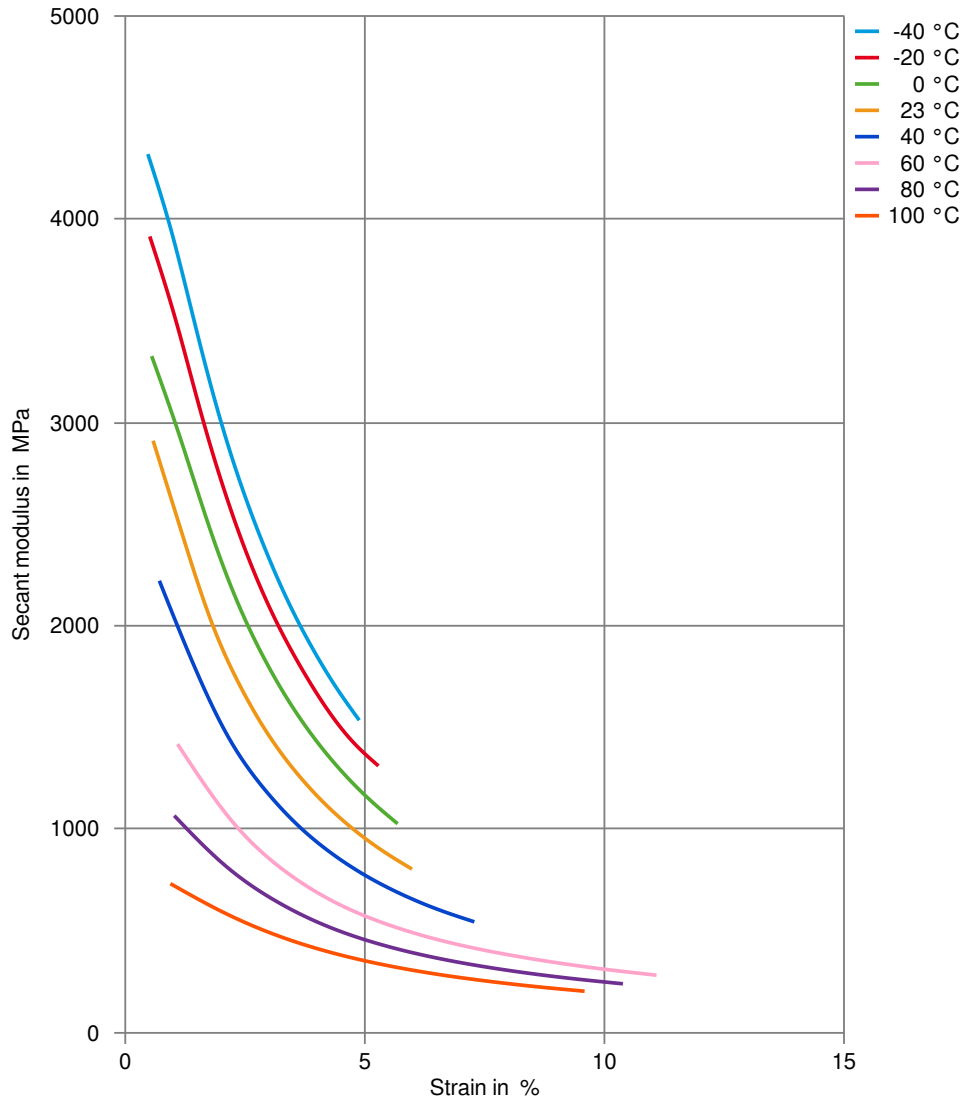


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Secant modulus-strain

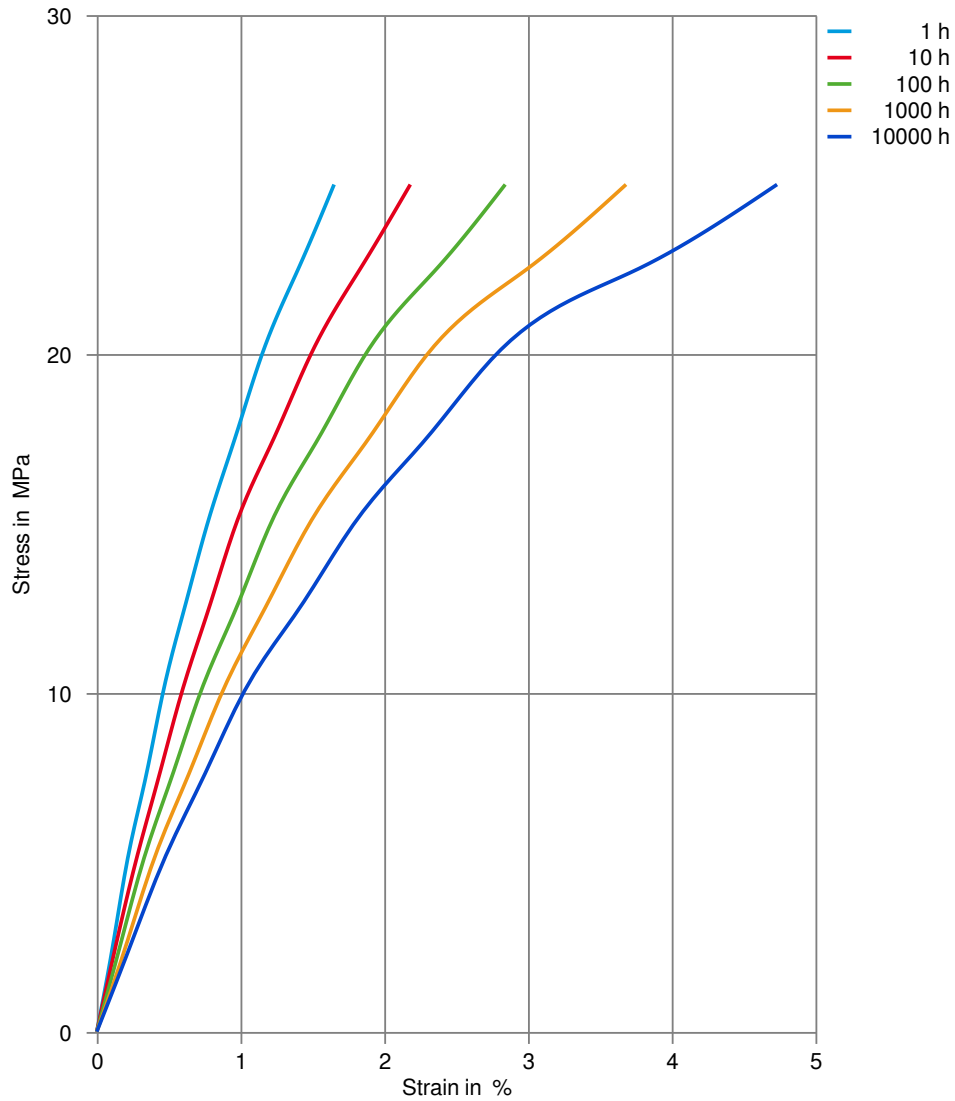


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Stress-strain (isochronous) 23°C

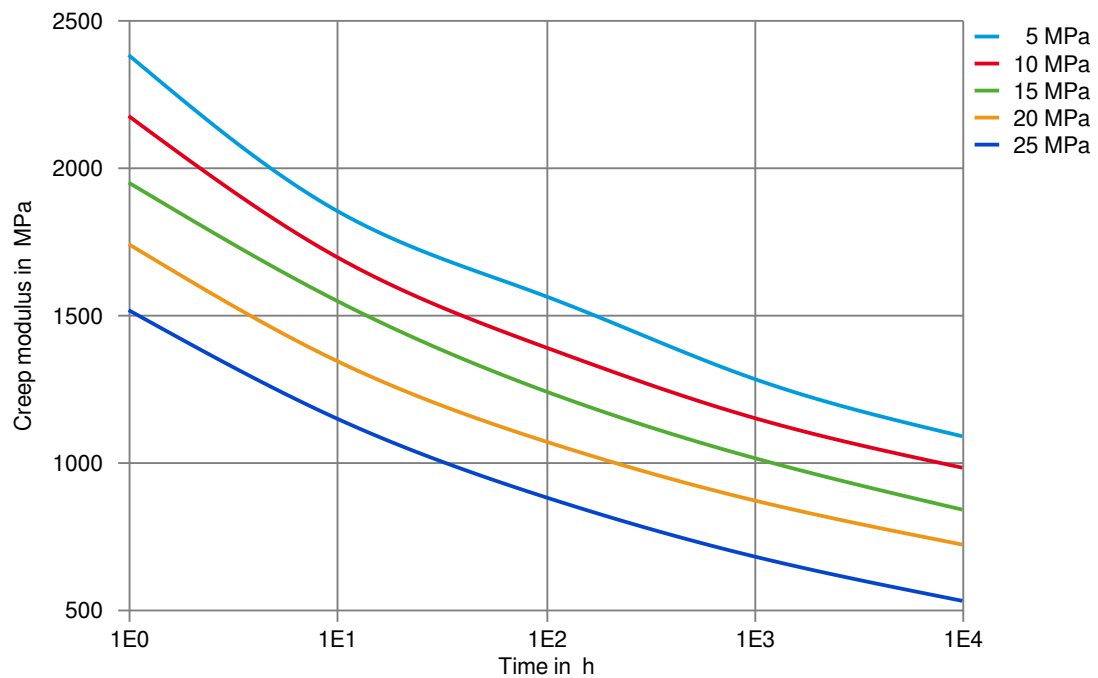


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Creep modulus-time 23°C



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Processing Texts

Longer pre-drying times/storage

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

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Mercedes-Benz Group (Daimler)	DBL 5404	BQF

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