

## **HOSTAFORM®**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNS, 03-002 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. UL-registration in natural and a thickness more than 1.57 mm as UL 94 HB, temperature index UL 746 B electrical 105 °C, mechanical 90 °C (tensile impact) and 80 °C (tensile). 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. UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

#### Product information

Troduct information			
Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
Rheological properties			
Melt volume-flow rate	85	cm <sup>3</sup> /10min	ISO 1133
Temperature	190		
Load	2.16		
Moulding shrinkage, parallel	2.0		ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2800	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65	MPa	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	2700	MPa	ISO 178
Tensile creep modulus, 1h	2400	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C		kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C		kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness, H 358/30		MPa	ISO 2039-1
Poisson's ratio	0.4 <sup>[OT]</sup>		
[OT]: One time tested			
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	110	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Flammability			
Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested		mm	IEC 60695-11-10
Burning Behav. at thickness h		class	IEC 60695-11-10
Thickness tested	3.18	mm	IEC 60695-11-10
UL recognition	yes		UL 94
	-		

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Electrical properties		
Relative permittivity, 100Hz	4.2	
Relative permittivity, 1MHz	4.2	
Dissipation factor, 100Hz	25 E-4	
Dissipation factor, 1MHz	80 E-4	
Volume resistivity	1E12 Ohm.m	
Surface resistivity	1E14 Ohm	
Electric strength	35 kV/mm	
Comparative tracking index	600	
Physical/Other properties		
Humidity absorption, 2mm	0.2 %	
Water absorption, 2mm	0.75 %	
Density	1420 kg/m <sup>3</sup>	
Injection		
Drying Recommended	no	
Drving Temperature	100 °C	

IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112

Sim. to ISO 62 Sim. to ISO 62 ISO 1183

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Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3-4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	200 °C
Min. melt temperature	190 °C
Max. melt temperature	210 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	2 MPa

#### **Characteristics**

Processing	Injection Moulding, Other Extrusion
Delivery form	Pellets
Special characteristics	Low wear / Low friction

#### 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 %

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### Processing

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

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

#### 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.

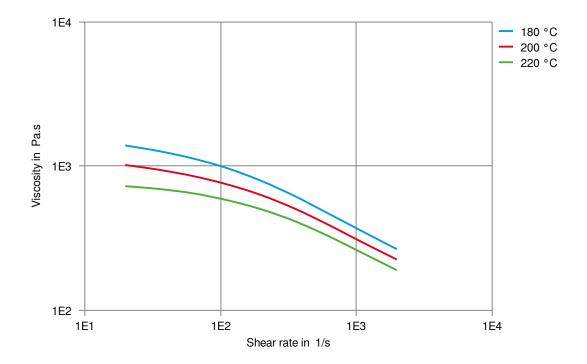
#### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	
Bosch	N28 BN22-O014	Natural
Continental	TST N 055 54.07	
Stellantis - Chrysler	MS.50095 / CPN-5280	Canod



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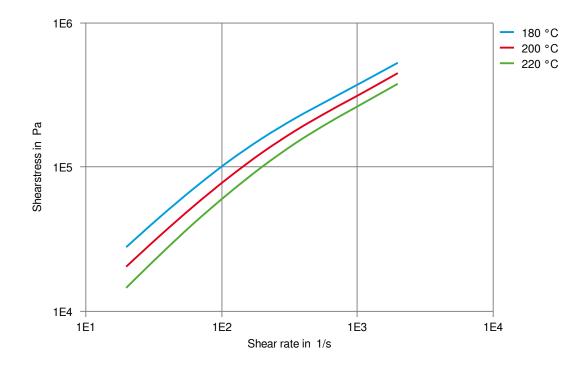
Viscosity-shear rate





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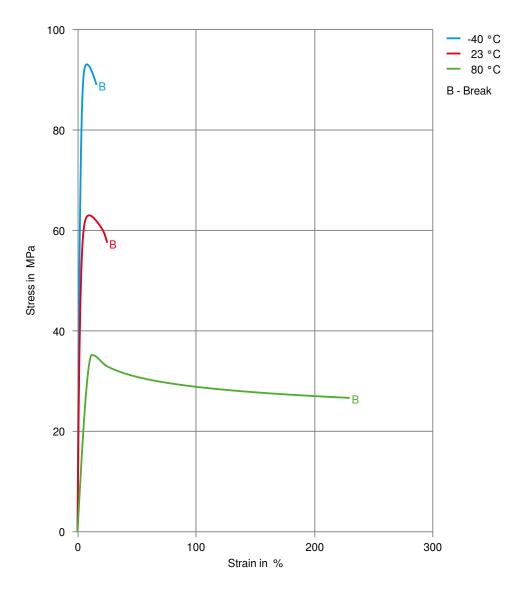
Shearstress-shear rate





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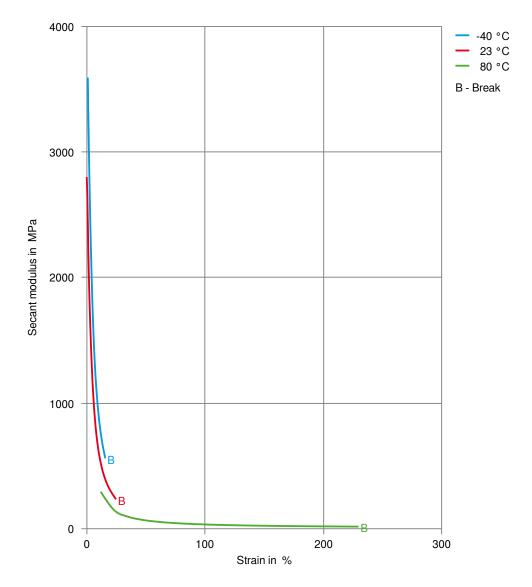
#### Stress-strain





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#### Secant modulus-strain



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