

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNS, 02-002 POM copolymer Injection molding type, modified with PTFE; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; for sliding combinations with very low coefficient of friction. 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 95 °C (tensile impact) and 100 °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 very low coefficient of friction. FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Product information

Resin Identification Part Marking Code	POM+PTFE >POM+PTFE<		ISO 1043 ISO 11469
			100 11403
Rheological properties			
Melt volume-flow rate	6	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16		
Moulding shrinkage, parallel	2.0 ^[1]		ISO 294-4, 2577
Moulding shrinkage, normal	1.7 ^[1]	%	ISO 294-4, 2577
[1]: @ 195°C			
Typical mechanical properties			
Tensile modulus	2500	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	16	%	ISO 527-1/-2
Flexural modulus	2400	MPa	ISO 178
Tensile creep modulus, 1h	2100	MPa	ISO 899-1
Tensile creep modulus, 1000h	1200	MPa	ISO 899-1
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30 °C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30		MPa	ISO 2039-1
Poisson's ratio	0.38 ^[C]		
[C]: Calculated			
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	98	°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.	HR	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		IEC 60695-11-10
UL recognition	yes		UL 94
-	2		



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Electrical properties			
Relative permittivity, 100Hz	3.7		IEC 62631-2-1
Relative permittivity, 1MHz	3.7		IEC 62631-2-1
Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
Dissipation factor, 1MHz		E-4	IEC 62631-2-1
Volume resistivity		Ohm.m	IEC 62631-3-1
Surface resistivity	1E14		IEC 62631-3-2
Electric strength		kV/mm	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	1510	kg/m³	ISO 1183
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	≤0.2	%	
Melt Temperature Optimum	195	°C	
Min. melt temperature	190	°C	
Max. melt temperature	200	°C	
Screw tangential speed	≤0.3	m/s	
Mold Temperature Optimum	100	°C	
Min. mould temperature	80	°C	
Max. mould temperature	120		
Hold pressure range	60 - 120		
Back pressure		MPa	
Ejection temperature	139	°C	

Characteristics

Processing	Injection Moulding, Other Extrusion
Delivery form	Pellets
Additives	Release agent
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.

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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.

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.

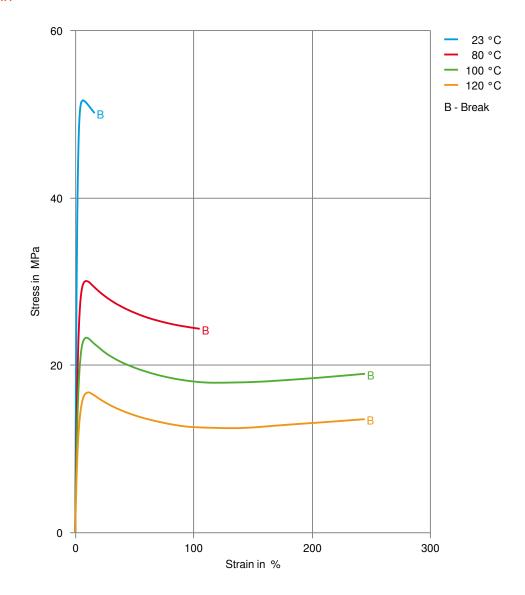
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	
Bosch	N28 BN22-X017	Natural
Continental	TST N 055 54.18	
Hyundai	MS237-05 Type D	
Mercedes-Benz	DBL5410	(5410.00)
Nissan	POM(0xx)-Ixx-1	
SAIC Motor	SMTC 5 310 020	

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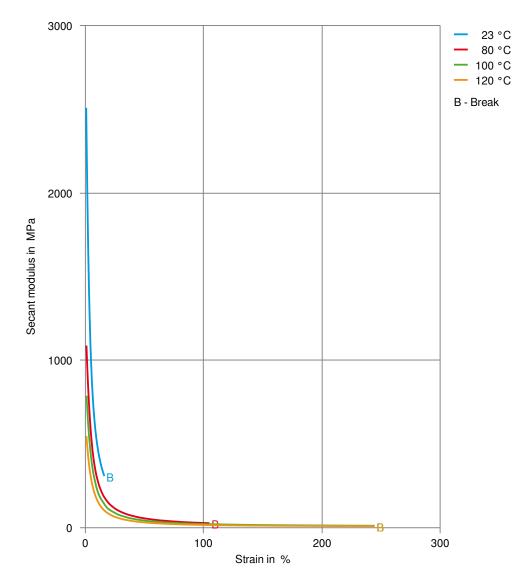
Stress-strain





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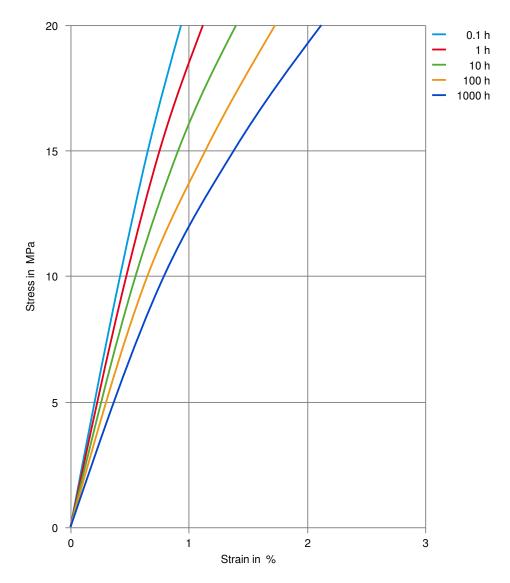
Secant modulus-strain





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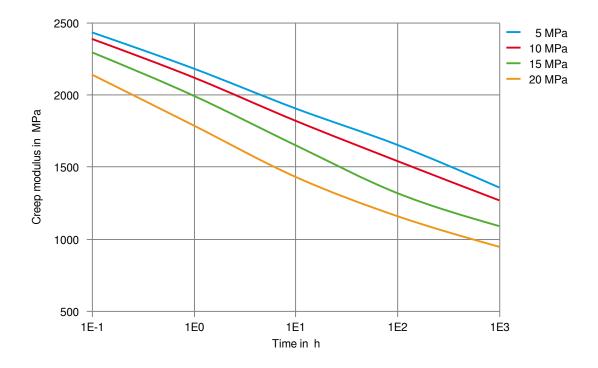
Stress-strain (isochronous) 23°C





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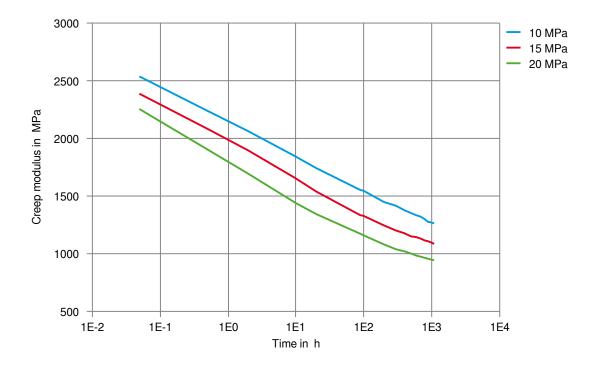
Creep modulus-time 23°C





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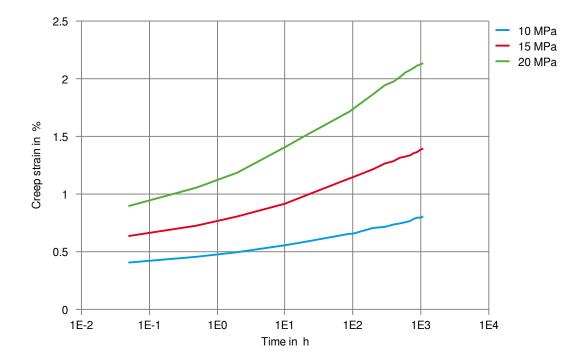
Creep modulus-time 23°C





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Creep strain-time 23°C



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