

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 01-002

POM copolymer

Stiff-flowing type for injection molding and extrusion with high impact toughness and good tracking resistance over a high range of temperature; 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 Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm.

Ranges of applications: injection molding thick-walled, void-free molded parts; extrusion e.g. for boards and pipes. FDA = Food and Drug Administration (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 Temperature	2.5 190	cm³/10min °C	ISO 1133
Load	2.16	kg	
Melt mass-flow rate	2.8	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	
Melt mass-flow rate, Load	2.16	kg	
Moulding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2600	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	62	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Flexural modulus	2500	MPa	ISO 178
Flexural stress at 3.5%	66	MPa	ISO 178
Tensile creep modulus, 1h	2300	MPa	ISO 899-1
Tensile creep modulus, 1000h	1100	MPa	ISO 899-1
Charpy impact strength, 23°C	250 ^[P]	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	250	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30	144	MPa	ISO 2039-1
Poisson's ratio	0.38 ^[C]		
[P]: Partial Break			
[C]: Calaulated			

[C]: Calculated



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Thermal properties			
Melting temperature, 10°C/min	165		ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	101		ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	110	E-6/K	ISO 11359-1/-2
Thermal conductivity of melt	0.155	W/(mK)	ISO 22007-2
Specific heat capacity of melt	2210	J/(kg K)	ISO 22007-4
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		mm	IEC 60695-11-10
UL recognition	yes		
Burning rate, Thickness 1 mm	33.9	mm/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		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		Ohm	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	1410	kg/m³	ISO 1183
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4		
Processing Moisture Content	≤0.2		
Melt Temperature Optimum	200		
Min. melt temperature	190		
Max. melt temperature Screw tangential speed	210 ≤0.3		
Mold Temperature Optimum	100		
Min. mould temperature		°Č	
Max. mould temperature	120		
Hold pressure range	60 - 120		
Back pressure		MPa	
Ejection temperature	130	°C	



Characteristics

Processing	Injection Moulding, Film Extrusion, Extrusion, Sheet Extrusion, Other Extrusion, Blow Moulding
Delivery form	Pellets
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.
Film extrusion	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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.
	Melt temperature 180-190 °C



Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Other extrusion

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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Profile extrusion

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 $^{\circ}$ C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

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Sheet extrusion



Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Blow 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 extruders with plasticating screws (20 to 25 D) will fit.

Melt temperature 180-190 °C Mould-surface temperature 60-100 °C

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.



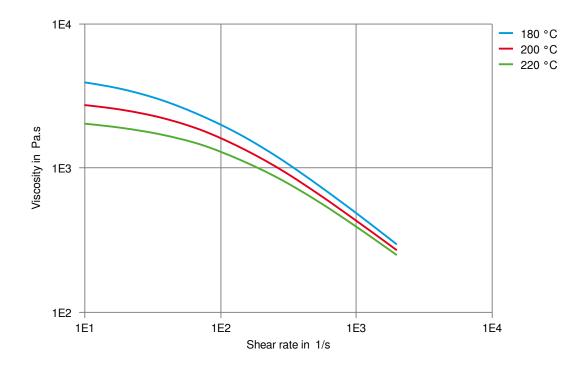
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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	
Bosch	N28 BN22-O004	Black, Made In Frankfurt
Bosch	N28 BN22-O004	Natural, Made In Frankfurt
Bosch	N28 BN22-O004	Red, Made In Frankfurt
Bosch	N28 BN22-O004	Colors
Continental	TST N 055 54.07	
Ford	WSK-M4D635-A1	
General Motors	Natural, Special Parts Approval, See Your CE Account Representative for Further Details.	
Mercedes-Benz	DBL5403	(5403.00)
Mercedes-Benz	DBL5405	(5405.01)
Mercedes-Benz	DBL5405-06-POM-C	'Polyoxymethylene Copolymer'
Mercedes-Benz	DBL5410	(5410.00)
Mercedes-Benz	DBL5420	(5420.00)
Nissan	POM-IVx-1	
Stellantis	MS.50210 / POM-C.2400F.6C.LF	Technical Black;POM 100.65



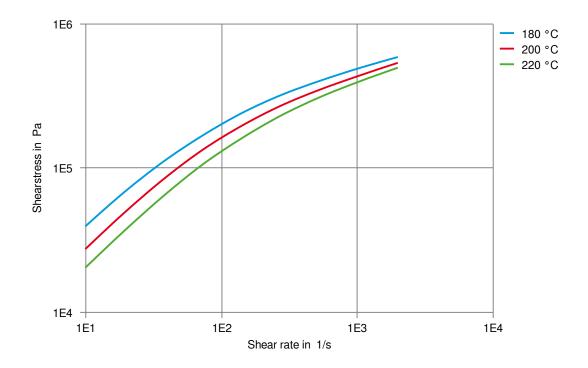






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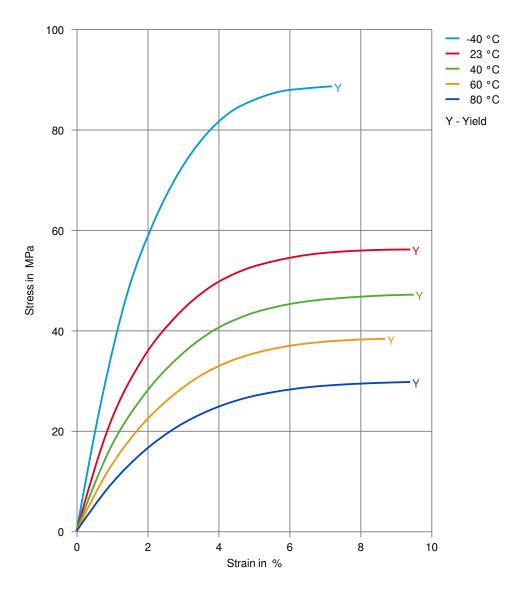
Shearstress-shear rate





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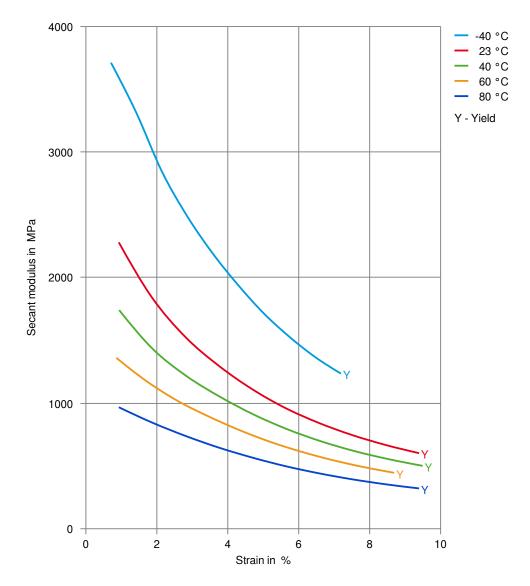
Stress-strain





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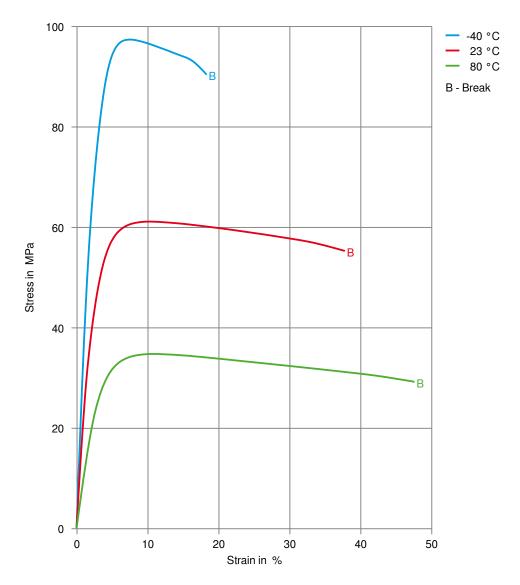
Secant modulus-strain





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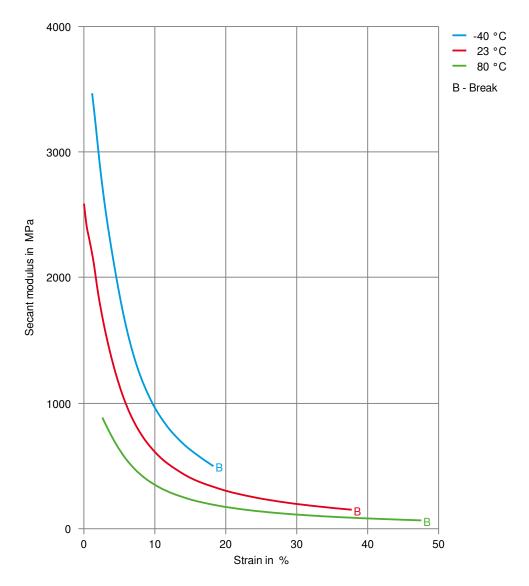
Stress-strain, 50mm/min





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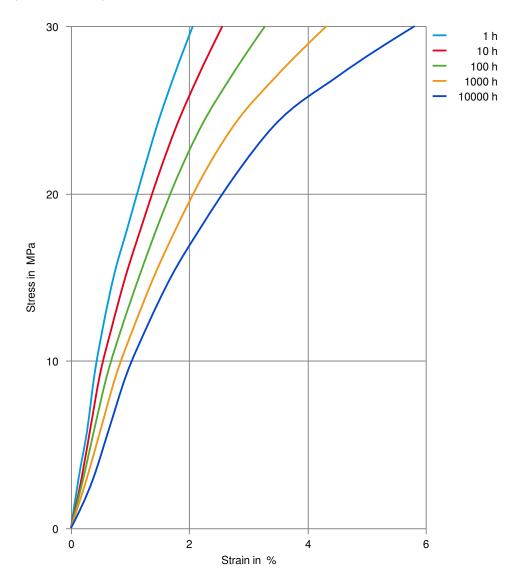
Secant modulus-strain, 50mm/min





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Stress-strain (isochronous) 23°C



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