

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 03-002 POM copolymer Medium viscosity molding grade with high rigidity, hardness and toughness; 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 UL-registration for all colours and a thickness more than 1.5 mm as UL 94 HB, temperature index UL 746 B electrical 110 °C, mechanical 90 °C. Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: automotive engineering, precision engineering, electric and electronical industry, domestic appliances. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Product information

Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate Temperature Load	8 190 2.16		ISO 1133
Moulding shrinkage, parallel Moulding shrinkage, normal [1]: @ 195°C	2.0 1.9 ^[1]		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Nominal strain at break Flexural modulus Flexural strength Flexural strength Flexural stress at 3.5% Compressive stress at 1% strain Tensile creep modulus, 1h Tensile creep modulus, 1000h Charpy impact strength, 23 °C Charpy impact strength, -30 °C Charpy notched impact strength, -30 °C Ball indentation hardness, H 358/30 Poisson's ratio [P]: Partial Break	9 30 2700 89 72 24 2500 1300 220 ^[P] 220 6.5 6	MPa % MPa MPa MPa MPa MPa MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 178 ISO 604 ISO 899-1 ISO 899-1 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa Coefficient of linear thermal expansion (CLTE), parallel Coefficient of linear thermal expansion (CLTE), normal		°C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2
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Thermal conductivity of melt	0.155	W/(mK)	ISO 22007-2
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	mm	IEC 60695-11-10
UL recognition	yes		UL 94
Electrical properties			
Relative permittivity, 100Hz	4		IEC 62631-2-1
Relative permittivity, 1MHz	4		IEC 62631-2-1
Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50	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
Relative permittivity, printed circuits and boards, 2.5	3		IEC 61189-2-721
GHz			
Relative permittivity, printed circuits and boards, 10	3.2		IEC 61189-2-721
GHz Discipation factor, printed aircuits and beards, 2.5	466		IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	400	⊑-4	IEC 01109-2-721
Dissipation factor, printed circuits and boards, 10	144	E-4	IEC 61189-2-721
GHz	177		
Physical/Other properties			
	0.0	0/	
Humidity absorption, 2mm	0.2 0.65		Sim. to ISO 62 Sim. to ISO 62
Water absorption, 2mm Density		⁷ ° kg/m ³	ISO 1183
Density	1410	Kg/III	100 1103
Injection			
Drying Recommended	no		
Drying Temperature	100		
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	≤0.2		
Melt Temperature Optimum	200		
Min. melt temperature	190		
Max. melt temperature	210		
Screw tangential speed	≤0.3 100		
Mold Temperature Optimum Min. mould temperature		°C	
Max. mould temperature	120		
Hold pressure range	60 - 120		
Back pressure		MPa	
Ejection temperature	127		
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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





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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 $^{\circ}$ 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

Sheet 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.





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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

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
BAIC	Q-BJEV 01.59	
BMW	GS93016	
Bosch	N28 BN22-O010	Colors
Continental	SN 57914-7	
Continental	TST N 055 54.07	
Ford	WSK-M4D635-A2	Natural
Ford	WSK-M4D635-A2	Black 14
General Motors	GMW22P-POM-C2	Natural
Hyundai	MS237-14 Type A	



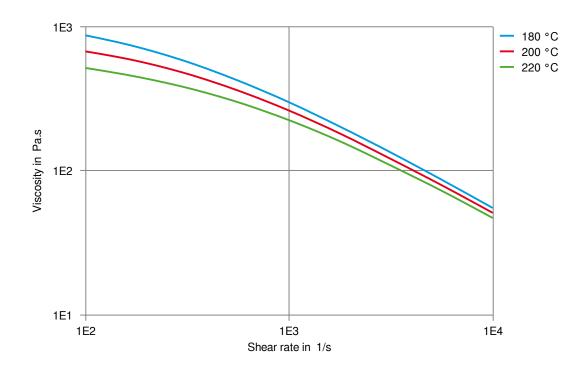
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Mercedes-Benz	
Mercedes-Benz	DBL540
Nissan	EP03-3
Nissan	UB15b
Stellantis	MS.502
Stellantis - Chrysler	MS.500
Tesla	TM-100
VW Group	TL 526
VW Group	TL 526

Viscosity-shear rate

BL5405-06-POM-C P03-3 IB15b IS.502xx / POM-C.2400F.5C.MF IS.50095 / CPN-1532 M-1001-TMEP 3082 IL 526 36A IL 526 36C Door Lock Parts 'Polyoxymethylene Copolymer'

01994_14_00056, CPN 1532, CPN1586 Natural 14 BLACK-IPH

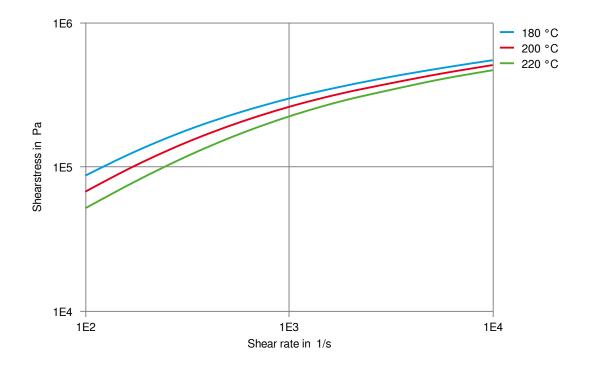






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Shearstress-shear rate

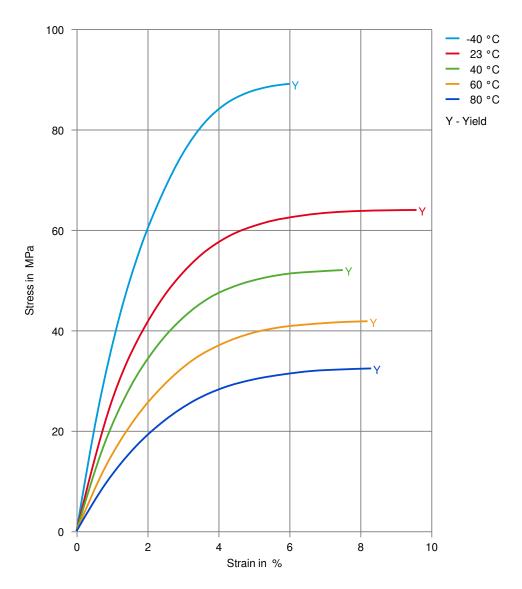






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Stress-strain

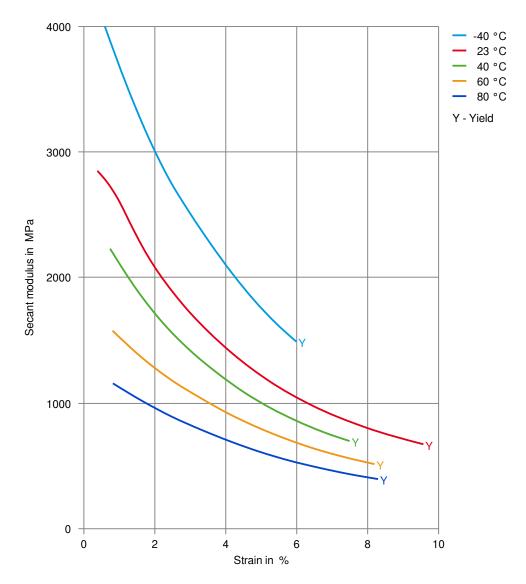






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Secant modulus-strain

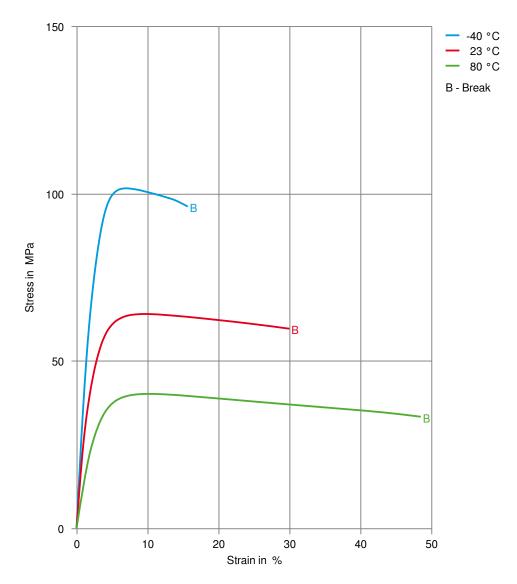






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Stress-strain, 50mm/min

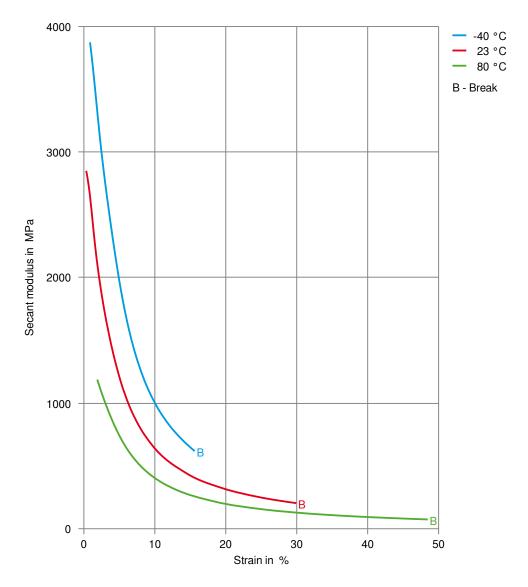






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Secant modulus-strain, 50mm/min

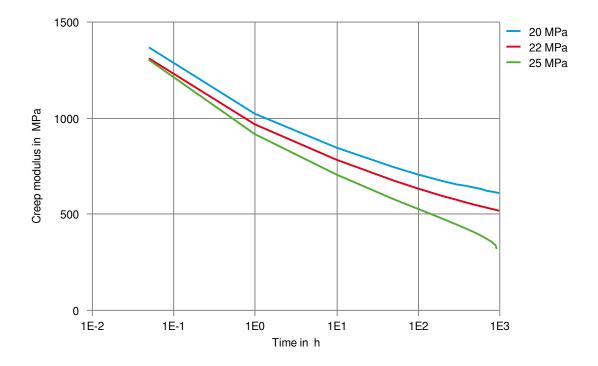






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Creep modulus-time 60°C

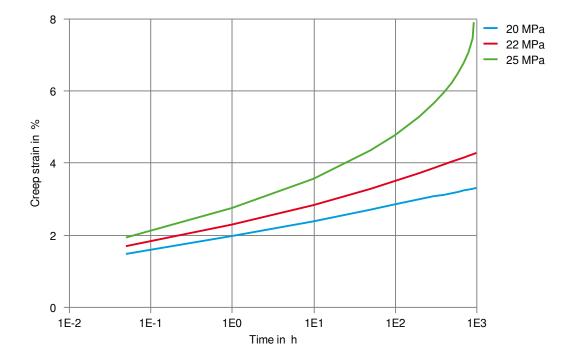






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Creep strain-time 60°C

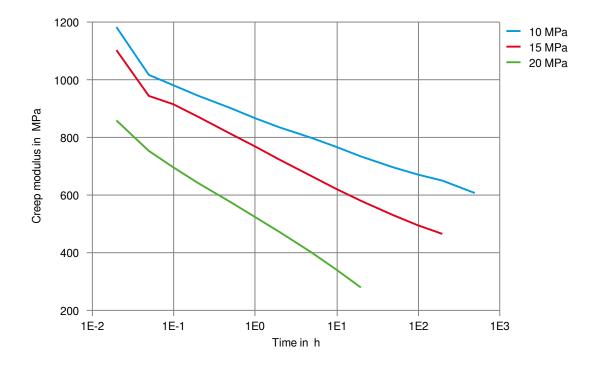






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Creep modulus-time 90°C

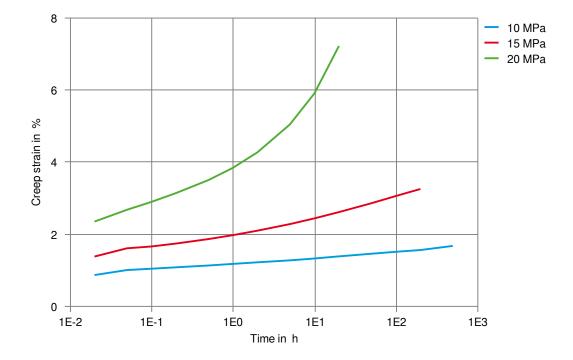






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Creep strain-time 90°C



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