

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 ULregistration 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)

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Product information			
Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
Rheological properties			
		240	100 4400
Melt volume-flow rate		cm ³ /10min	ISO 1133
Temperature	190	-	
Load Moulding obrinkage parallel	2.16 2.0	-	ISO 294-4, 2577
Moulding shrinkage, parallel Moulding shrinkage, normal	2.0 1.9 ^[1]		ISO 294-4, 2577
	1.3	70	130 294-4, 2377
[1]: @ 195°C			
Typical mechanical properties			
Tensile modulus	2850	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	64	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural modulus	2700	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Flexural stress at 3.5%	72	MPa	ISO 178
Compressive stress at 1% strain	24	MPa	ISO 604
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m ²	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	0.399		
[P]: Partial Break			
Thermal properties			

Thermal properties

Thermal properties		
Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	104 °C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	160 °C	ISO 75-1/-2
Coefficient of linear thermal expansion	110 E-6/K	ISO 11359-1/-2
(CLTE), parallel		
Coefficient of linear thermal expansion (CLTE),	110 E-6/K	ISO 11359-1/-2
normal		

Printed: 2025-03-24 Page: 1 of 15



HOSTAFORM®

Thermal conductivity of melt	0.155	W/(m K)	ISO 22007-2
Flammability			
Burning Behav. at 1.5mm nom. thickn.	НВ	class	IEC 60695-11-10
Thickness tested		mm	IEC 60695-11-10
Burning Behav. at thickness h	НВ	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		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 GHz	3		IEC 61189-2-721
Relative permittivity, printed circuits and boards, 10	3.2		IEC 61189-2-721
GHz			
Dissipation factor, printed circuits and boards, 2.5 GHz	466	E-4	IEC 61189-2-721
Dissipation factor, printed circuits and boards, 10 GHz	144	E-4	IEC 61189-2-721
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		
Drying Time, Dehumidified Dryer	3 - 4		
Processing Moisture Content	≤0.2		
Melt Temperature Optimum	200		
Min. melt temperature	190		
Max. melt temperature	210		
Screw tangential speed Mold Temperature Optimum	≤0.3 100		
Min. mould temperature		°C	
Max. mould temperature	120		
Hold pressure range	60 - 120		
Back pressure		MPa	
Ejection temperature	127		
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Printed: 2025-03-24 Page: 2 of 15



HOSTAFORM®

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 $^{\circ}$ 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 $^{\circ}$ 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

Printed: 2025-03-24 Page: 3 of 15



HOSTAFORM®

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

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.

Printed: 2025-03-24 Page: 4 of 15



HOSTAFORM®

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

Printed: 2025-03-24 Page: 5 of 15



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Mercedes-Benz

DBL5405-06-POM-C

Mercedes-Benz Nissan

EP03-3

Nissan

UB15b

Stellantis

MS.502xx / POM-C.2400F.5C.MF

Stellantis - Chrysler

MS.50095 / CPN-1532

Tesla

TM-1001-TMEP 3082

VW Group

TL 526 36A TL 526 36C

VW Group

Door Lock Parts

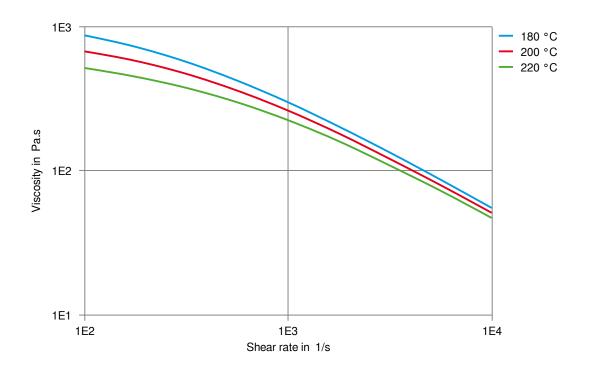
'Polyoxymethylene Copolymer'

01994_14_00056, CPN 1532, CPN1586

Natural

14 BLACK-IPH

Viscosity-shear rate

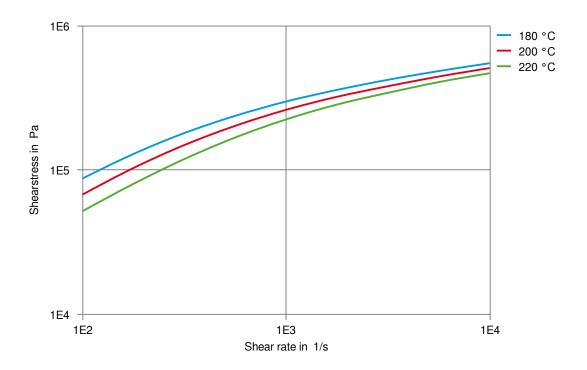


Printed: 2025-03-24 Page: 6 of 15



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Shearstress-shear rate

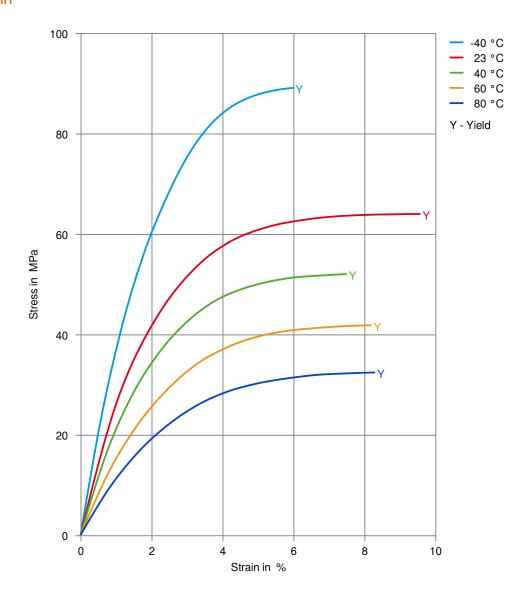


Printed: 2025-03-24 Page: 7 of 15



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Stress-strain

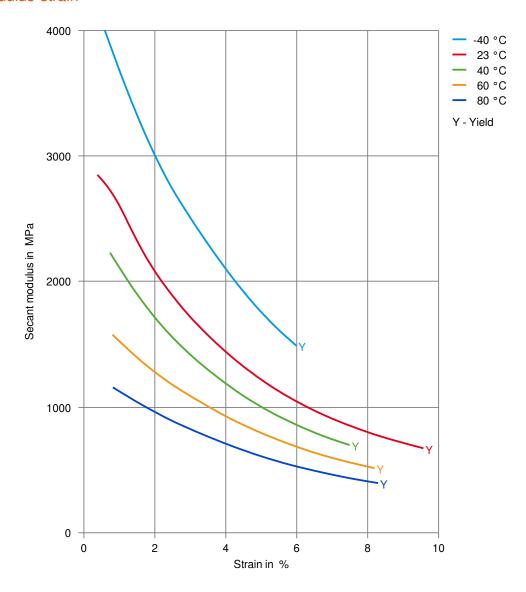


Printed: 2025-03-24 Page: 8 of 15



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Secant modulus-strain

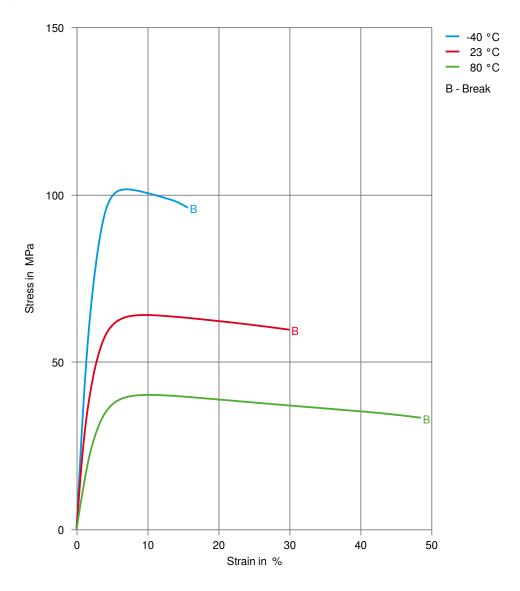


Printed: 2025-03-24 Page: 9 of 15



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Stress-strain, 50mm/min

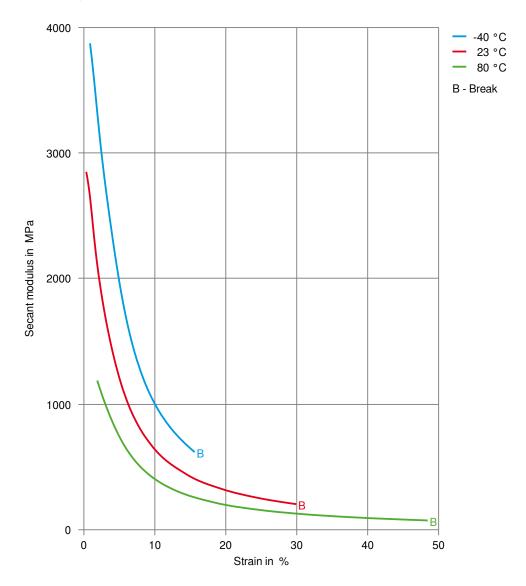


Printed: 2025-03-24 Page: 10 of 15



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Secant modulus-strain, 50mm/min

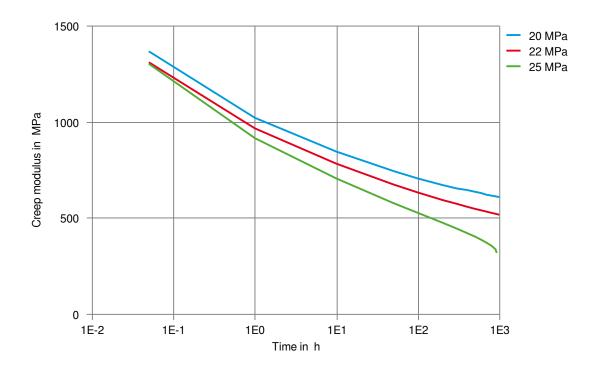


Printed: 2025-03-24 Page: 11 of 15



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Creep modulus-time 60°C

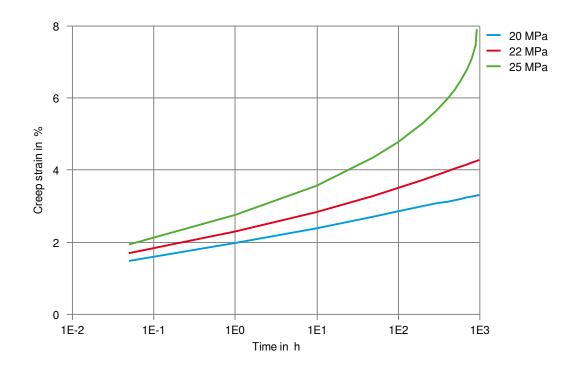


Printed: 2025-03-24 Page: 12 of 15



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Creep strain-time 60°C

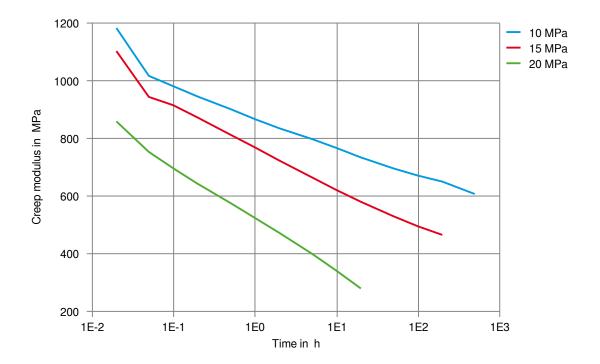


Printed: 2025-03-24 Page: 13 of 15



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Creep modulus-time 90°C

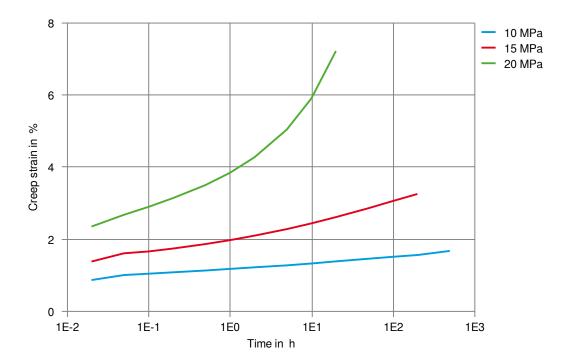


Printed: 2025-03-24 Page: 14 of 15



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Creep strain-time 90°C



Printed: 2025-03-24 Page: 15 of 15

Revised: 2024-11-27 Source: Celanese Materials Database

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