

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 05-002 POM copolymer Very easy flowing Injection molding type with high rigidity and hardness; 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: thin-walled molded parts with unfavourite flow-path-wall thickness relation; multicavity moulds; complicated precision molded parts; short cycle time. 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	_ ·	cm ³ /10min	ISO 1133
Temperature	190		
Load	2.16	-	100 00 / 0000
Moulding shrinkage, parallel	1.9		ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2900	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	7.5	%	ISO 527-1/-2
Nominal strain at break	17	%	ISO 527-1/-2
Flexural modulus	2750	MPa	ISO 178
Flexural stress at 3.5%	73	MPa	ISO 178
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h	1300	MPa	ISO 899-1
Charpy impact strength, 23°C	170	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	170	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5.5	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30	147	MPa	ISO 2039-1
Poisson's ratio	0.406		
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	106		ISO 75-1/-2
Coefficient of linear thermal expansion		E-6/K	ISO 11359-1/-2
(CLTE), parallel	110	_ 5/10	100 11000 1/ 2
Thermal conductivity of melt	0.155	W/(m K)	ISO 22007-2

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Flammability

Burning Behav. at 1.5mm nom. thickn.	НВ	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB	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	25	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	35	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/m ³	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	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	4	MPa
Ejection temperature	136	°C

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent Special characteristics High Flow

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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.

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-O028	Natural, Made In Frankfurt
Bosch	N28 BN22-O028	Black, Made In Frankfurt
Continental	TST N 055 54.12	
Continental	TST N 055 54.12	(TST N 055 54.12-001)
Continental	TST N 055 54.12	(TST N 055 54.12-005) + 4 % HOSTAFORM FK 33 (Grey Coloured Masterbatch)
Continental	TST N 055 54.12	(TST N 055 54.12-004) + 4 % HOSTAFORM FK 87 (Blue Coloured Masterbatch)
Ford	WSK-M4D635-A3	Natural

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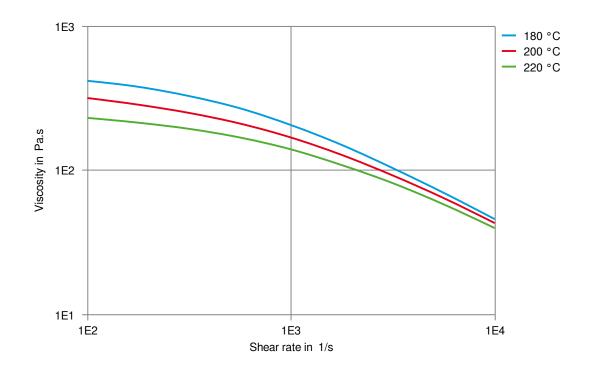
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Ford WSK-M4D635-A3 Black
Nissan POM-IHx-1

Viscosity-shear rate

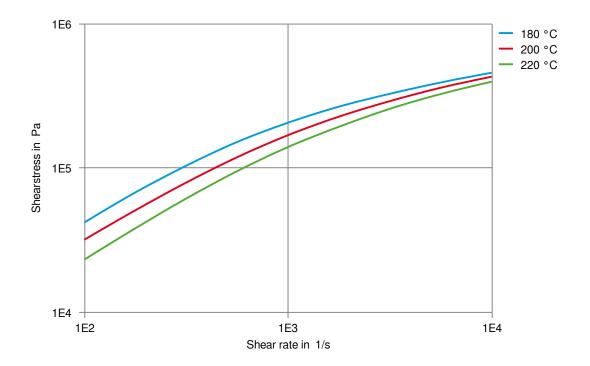


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Shearstress-shear rate

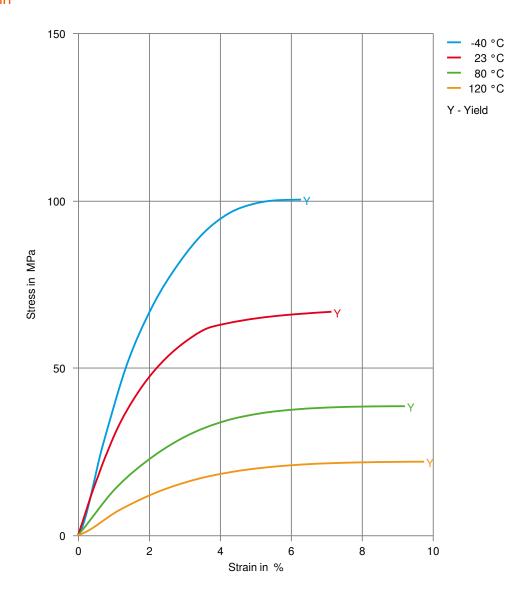


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Stress-strain

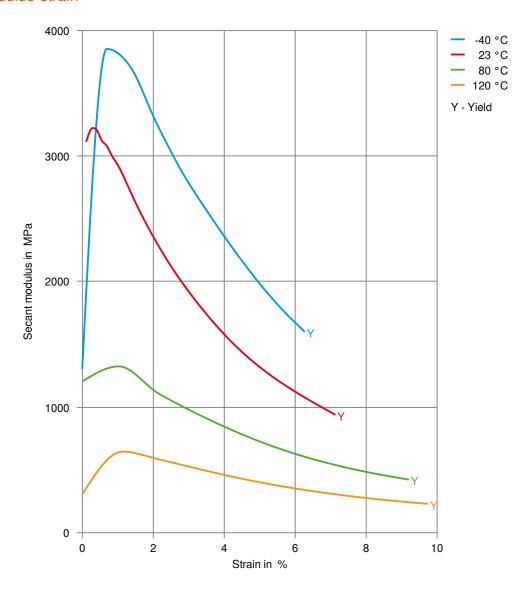


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Secant modulus-strain

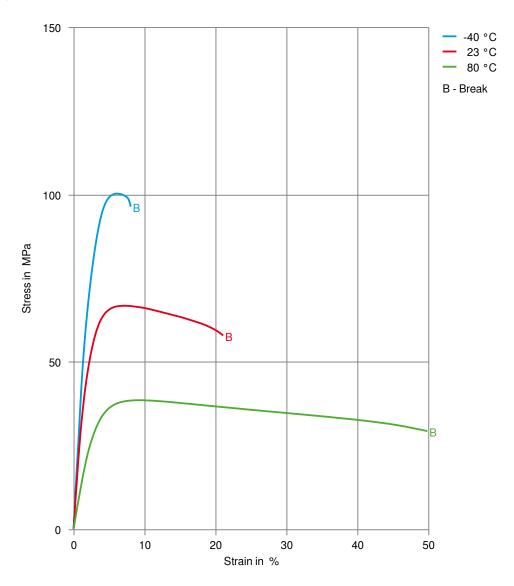


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Stress-strain, 50mm/min

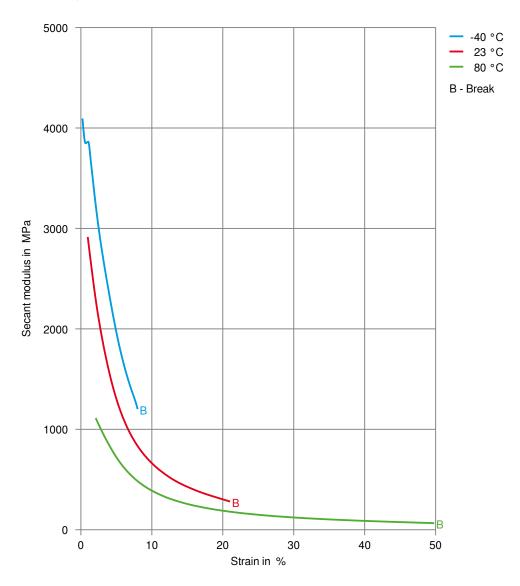


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Secant modulus-strain, 50mm/min

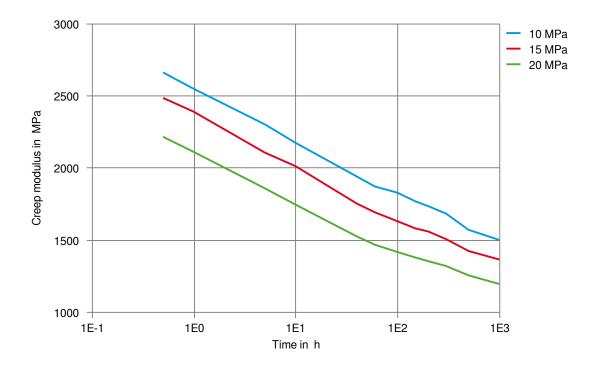


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Creep modulus-time 23°C

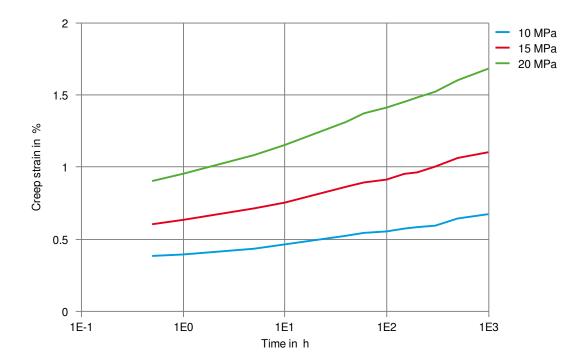


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Creep strain-time 23°C



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