

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 04-002 POM copolymer Easy flowing Injection molding type for precision molded parts and thin-walled molded parts 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) UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

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Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
5			
Rheological properties			
Melt volume-flow rate	12	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.0	%	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	9	%	ISO 527-1/-2
Nominal strain at break	28	%	ISO 527-1/-2
Flexural modulus	2750	MPa	ISO 178
Flexural stress at 3.5%	72	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	200	kJ/m²	ISO 179/1eU
Charpy impact strength, -30 °C	200	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	0.37 ^[C]		
[C]: Calculated			
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			
Thermal conductivity of melt	0.155	W/(mK)	ISO 22007-2
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Flammability				
Burning Behav. at 1.5mm nom. thickn		HB	class	IEC 60695-11-10
Thickness tested		1.5	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		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
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	h	
Processing Moisture Content		≤0.2	%	
Melt Temperature Optimum		200	°C	
Min. melt temperature		190	-	
Max. melt temperature		210		
Screw tangential speed		≤0.3		
Mold Temperature Optimum		100	-	
Min. mould temperature		80		
Max. mould temperature		120		
Hold pressure range	e e	50 - 120		
Back pressure		4 130	MPa	
Ejection temperature		130		
Characteristics				
Processing	Injection Moulding			

Delivery form

Additives

Pellets

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.

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-O024	Colors Made in Frankfurt
Continental	TST N 055 54.07	
Ford	WSK-M4D635-A2	Natural
Ford	WSK-M4D635-A2	Black 12
Mercedes-Benz	DBL5403	(5403.00)
Mercedes-Benz	DBL5405	(5405.01)
Mercedes-Benz	DBL5405-06-POM-C	Natural
Mercedes-Benz	DBL5406	(5406.00)

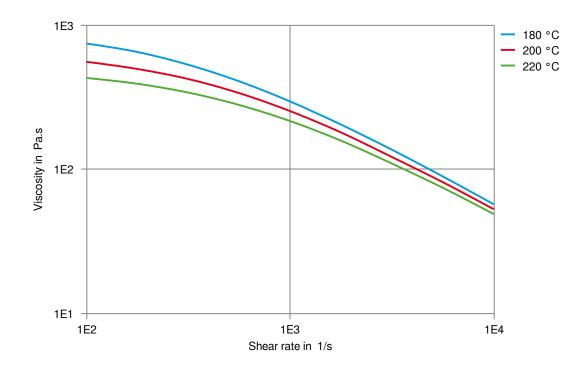
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Mercedes-Benz	DBL5410	(5410.00)
Mercedes-Benz	DBL5420	(5420.00)
Renault	F 1605006/ 4901502, No Spec, Special Par Approval, See Your CE Account Manager.	t
Renault	UB03f, PMR2020, No Spec, Special Part Approval, See Your CE Account Manager.	

Viscosity-shear rate

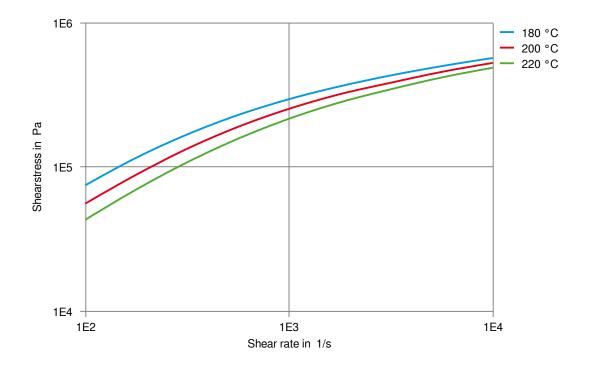






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Shearstress-shear rate

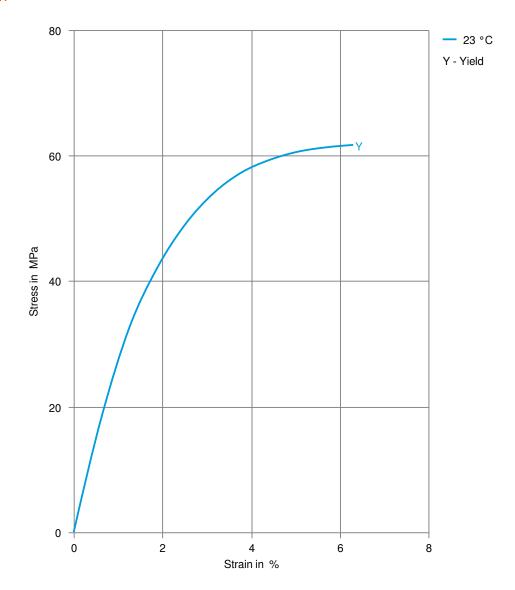






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Stress-strain

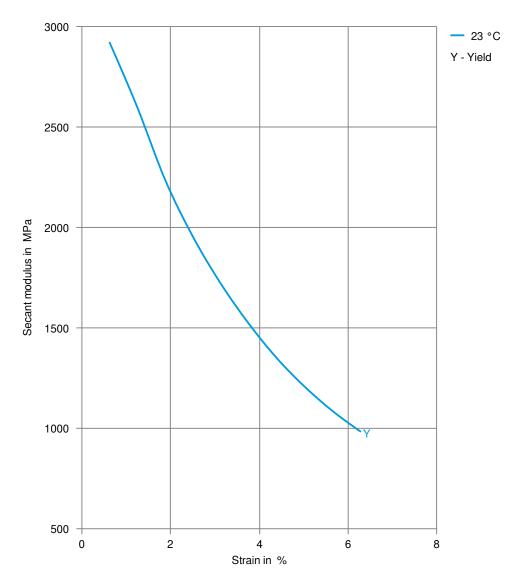






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Secant modulus-strain

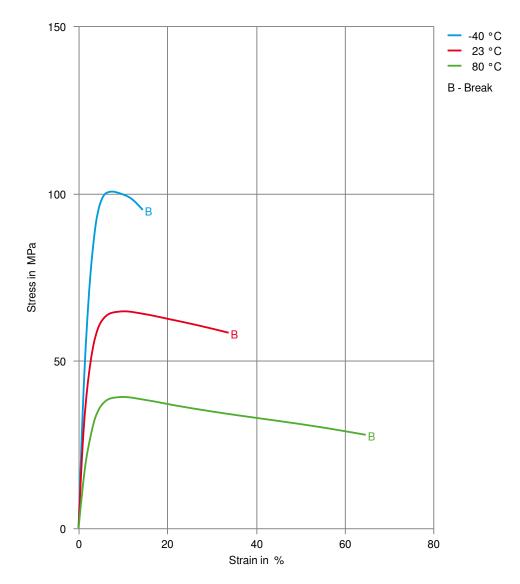






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Stress-strain, 50mm/min

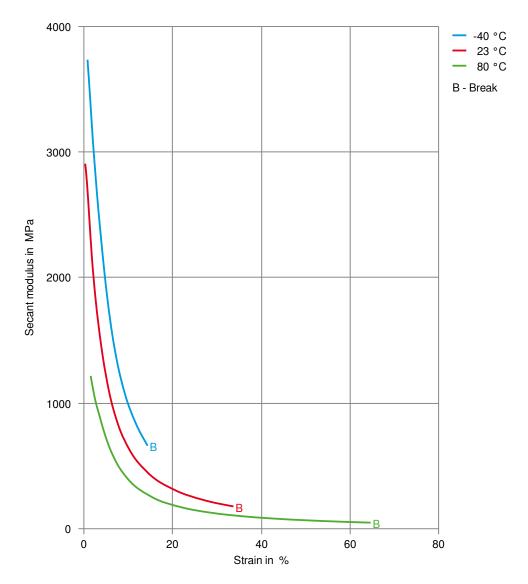






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Secant modulus-strain, 50mm/min



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