

### **HOSTAFORM®**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 06-002 POM copolymer Extremely easy flowing Injection molding type for very thin-walled precision molded parts with unfavourite flow-path-wallthickness relation; permits processing at reduced temperature and also shorter cycle times; for mechanical lower requirements; 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 in natural a thickness more than 0.81 mm, in black a thickness more than 1.5 mm as UL 94 HB, temperature index UL 746 B for a thickness of 1.5 mm, electrical 105 °C, mechanical 90 °C Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: For very thin-walled precision molded parts with unfavourite flow-path-wallthickness relation; permits processing at reduced temperature and also shorter cycle times. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

#### **Product information**

Designation	DOM		100 1040
Resin Identification	POM >POM<		ISO 1043
Part Marking Code	>FOIVI<		ISO 11469
Rheological properties			
Melt volume-flow rate	39	cm <sup>3</sup> /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	3000	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	7	%	ISO 527-1/-2
Nominal strain at break	15	%	ISO 527-1/-2
Flexural modulus	2850	MPa	ISO 178
Flexural stress at 3.5%	77	MPa	ISO 178
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/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 <sup>[C]</sup>		
[C]: Calculated			
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	106	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	110	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Thermal conductivity of melt	0.155	W/(m K)	ISO 22007-2
Specific heat capacity of melt	2060	J/(kg K)	ISO 22007-4

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### **HOSTAFORM®**

Flammability Burning Behav. at 1.5mm nom. thickn. Thickness tested Burning Behav. at thickness h Thickness tested UL recognition		1.5	class mm class mm	IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10 UL 94
Electrical properties Relative permittivity, 100Hz Relative permittivity, 1MHz Dissipation factor, 100Hz Dissipation factor, 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index		50 1E12 1E14	E-4 E-4 Ohm.m Ohm kV/mm	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112
Physical/Other properties Humidity absorption, 2mm Water absorption, 2mm Density		0.2 0.65 1410		Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Hold pressure range Back pressure Ejection temperature	60	120 0 - 120	h % °C °C °C m/s °C °C °C MPa MPa	
Characteristics				
Processing Delivery form Additives	Injection Moulding Pellets Release agent			

Special characteristics

**High Flow** 



#### 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.

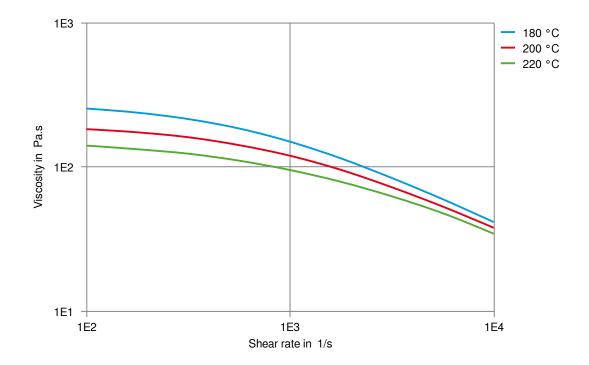
#### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	
Continental	TST N 055 54.14	
Ford	WSK-M4D635-A4	Natural
Ford	WSK-M4D635-A4	Black 12
Li Auto	Q/LiA5310020	2021 (V2)



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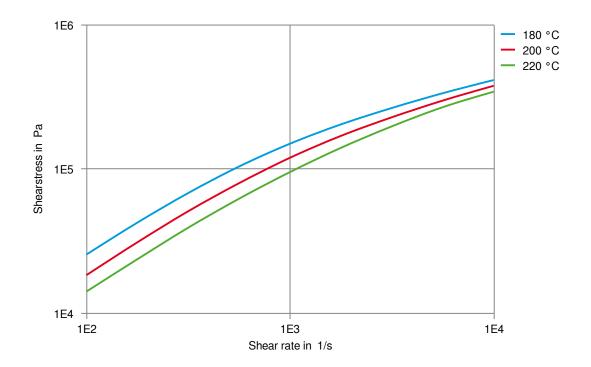
Viscosity-shear rate





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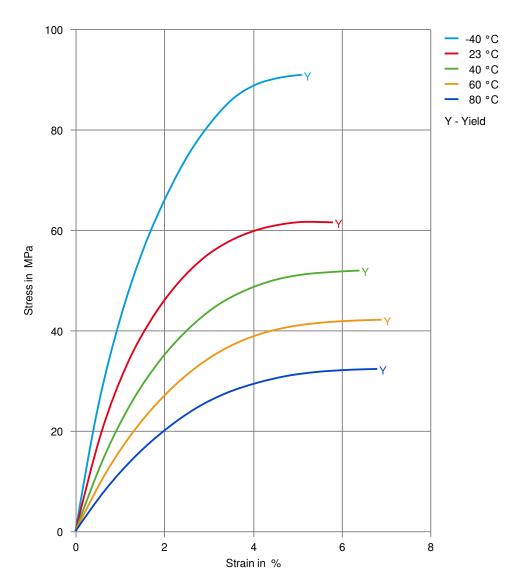
Shearstress-shear rate





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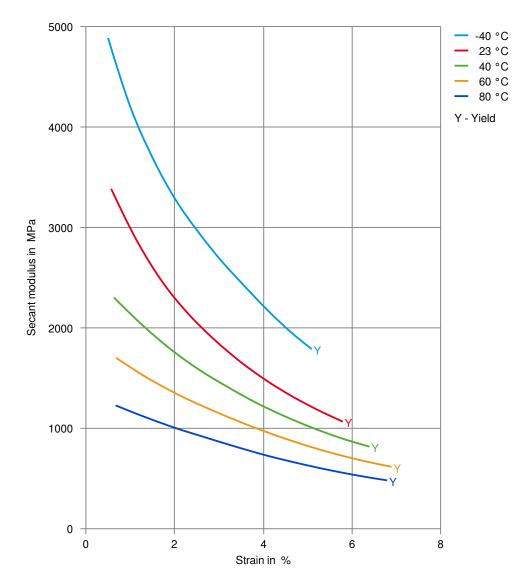
Stress-strain





### **HOSTAFORM®**

#### Secant modulus-strain



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