

#### **HOSTAFORM®**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 03-002, GB20 POM copolymer Injection molding type, reinforced with ca. 20 % glass spheres; high resistance to thermal and oxidative degradation. UL-registration in natural and a thickness more than 0.81 mm, in black and a thickness more than 1.5 mm as UL94 HB, temperature index UL 746 B for a thickness of 3 mm, electrical 105 °C, mechanical 95 °C (tensile impact) and 100 °C (tensile). Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: For low-warpage molded parts with higher rigidity and hardness. 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
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Rheological properties			
Melt volume-flow rate	8.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage range, parallel	1.9	-	ISO 294-4, 2577
Moulding shrinkage range, normal	1.6	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	3400	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	6.5		ISO 527-1/-2
Nominal strain at break	15		ISO 527-1/-2
Flexural modulus	3200	MPa	ISO 178
Compressive stress at 1% strain	26	MPa	ISO 604
Tensile creep modulus, 1h	3000	MPa	ISO 899-1
Tensile creep modulus, 1000h	1700	MPa	ISO 899-1
Charpy impact strength, 23°C	50	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.5	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	110		ISO 75-1/-2
Coefficient of linear thermal expansion		E-6/K	ISO 11359-1/-2
(CLTE), parallel			
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	0.81		IEC 60695-11-10
UL recognition	yes		UL 94
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Printed: 2025-03-24 Page: 1 of 7



#### **HOSTAFORM®**

#### Electrical properties

Relative permittivity, 100Hz	4.5		IEC 62631-2-1
Relative permittivity, 1MHz	4.2		IEC 62631-2-1
Dissipation factor, 100Hz	200	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	70	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	0.15 %	Sim. to ISO 62
Water absorption, 2mm	0.8 %	Sim. to ISO 62
Density	1530 kg/m <sup>3</sup>	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	2	MPa

#### Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent Special characteristics Low Warpage

#### 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.

Printed: 2025-03-24 Page: 2 of 7



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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

 Bosch
 N28 BN22-X014
 Natural

 Bosch
 N28 BN22-X014
 Black

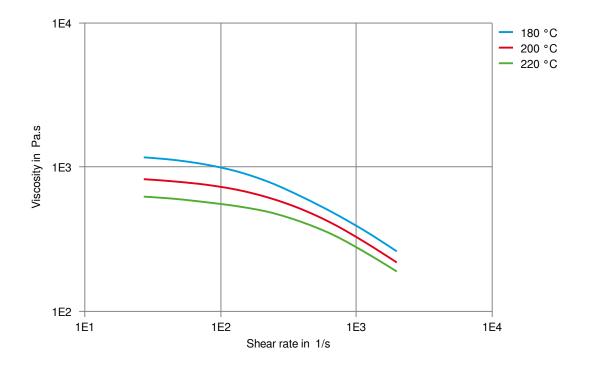
Continental TST N 055 54.15

Printed: 2025-03-24 Page: 3 of 7



**HOSTAFORM®** 

Viscosity-shear rate

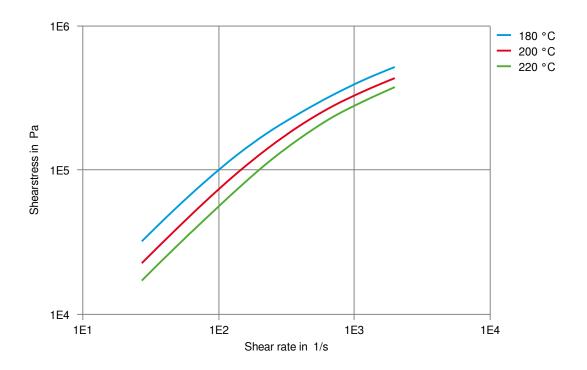


Printed: 2025-03-24 Page: 4 of 7



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Shearstress-shear rate

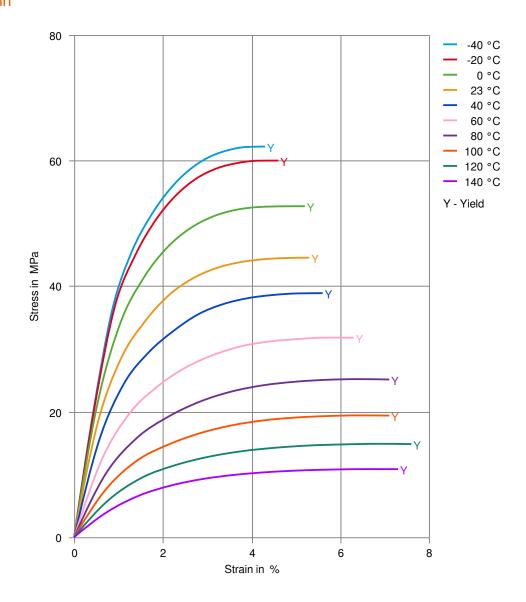


Printed: 2025-03-24 Page: 5 of 7



### **HOSTAFORM®**

#### Stress-strain

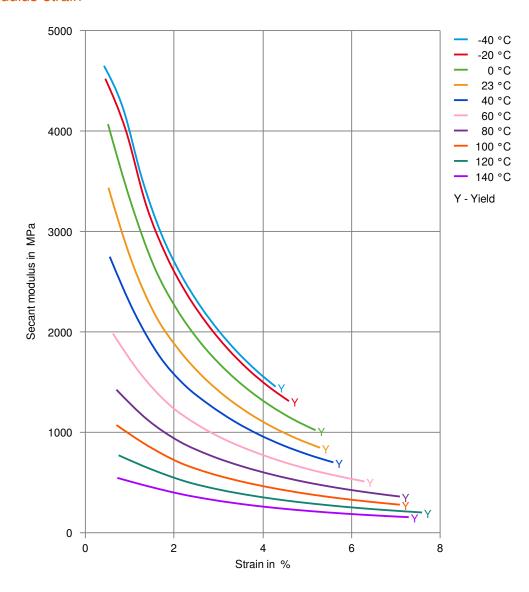


Printed: 2025-03-24 Page: 6 of 7



#### **HOSTAFORM®**

#### Secant modulus-strain



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

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