

HOSTAFORM® C 9021 GV3/30

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Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 02-002, GB30 POM copolymer Injection molding type, reinforced with ca. 30 % 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 1.0 mm as UL94 HB, temperature index UL 746 B for a thickness of 1.57 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 and dimensionally stable molded parts with higher rigidity and hardness. FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Product information

Resin Identification	POM	ISO 1043
Part Marking Code	>POM<	ISO 11469

Rheological properties

Melt volume-flow rate	7.5 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.7 ^[1] %	ISO 294-4, 2577
Moulding shrinkage, normal	1.4 ^[1] %	ISO 294-4, 2577
[1]: @ 195 °C		

Typical mechanical properties

Tensile modulus	3900 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	38 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	6 %	ISO 527-1/-2
Nominal strain at break	12 %	ISO 527-1/-2
Flexural modulus	3500 MPa	ISO 178
Compressive stress at 1% strain	30 MPa	ISO 604
Tensile creep modulus, 1h	3300 MPa	ISO 899-1
Tensile creep modulus, 1000h	2100 MPa	ISO 899-1
Charpy impact strength, 23 °C	40 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	40 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	3 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	3 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	167 MPa	ISO 2039-1
Poisson's ratio	0.36 ^[C]	
[C]: Calculated		

Thermal properties

Melting temperature, 10 °C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	112 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	90 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	90 E-6/K	ISO 11359-1/-2
Thermal conductivity of melt	0.225 W/(m K)	ISO 22007-2
Effective thermal diffusivity, flow	7.3E-8 m ² /s	ISO 22007-4
Specific heat capacity of melt	1780 J/(kg K)	ISO 22007-4

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Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	IEC 60695-11-10
Thickness tested	1.6 mm	IEC 60695-11-10
Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	0.81 mm	IEC 60695-11-10
UL recognition	yes	UL 94

Electrical properties

Relative permittivity, 100Hz	5	IEC 62631-2-1
Relative permittivity, 1MHz	4.5	IEC 62631-2-1
Dissipation factor, 100Hz	300 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	80 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	40 kV/mm	IEC 60243-1
Comparative tracking index	600	IEC 60112

Physical/Other properties

Humidity absorption, 2mm	0.12 %	Sim. to ISO 62
Water absorption, 2mm	0.9 %	Sim. to ISO 62
Density	1590 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 °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
Ejection temperature	140 °C

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	Low Warpage

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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 °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
 BMW
 Bosch
 Continental

STANDARD
 GS93016
 N28 BN22-X015
 TST N 055 54.16

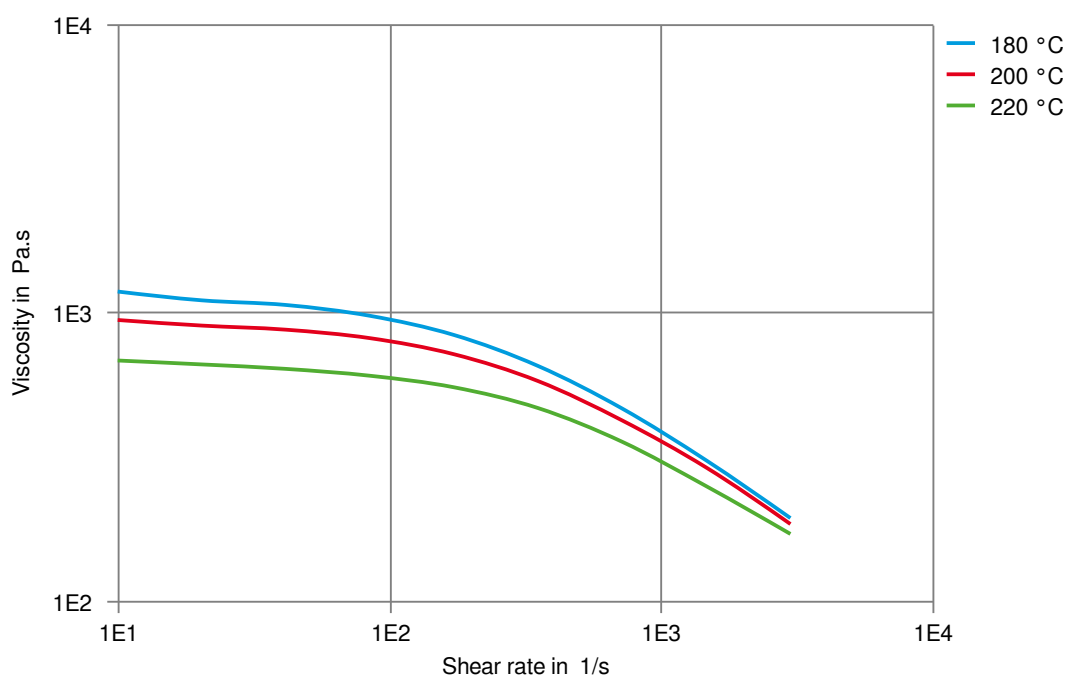
ADDITIONAL INFORMATION

 Natural

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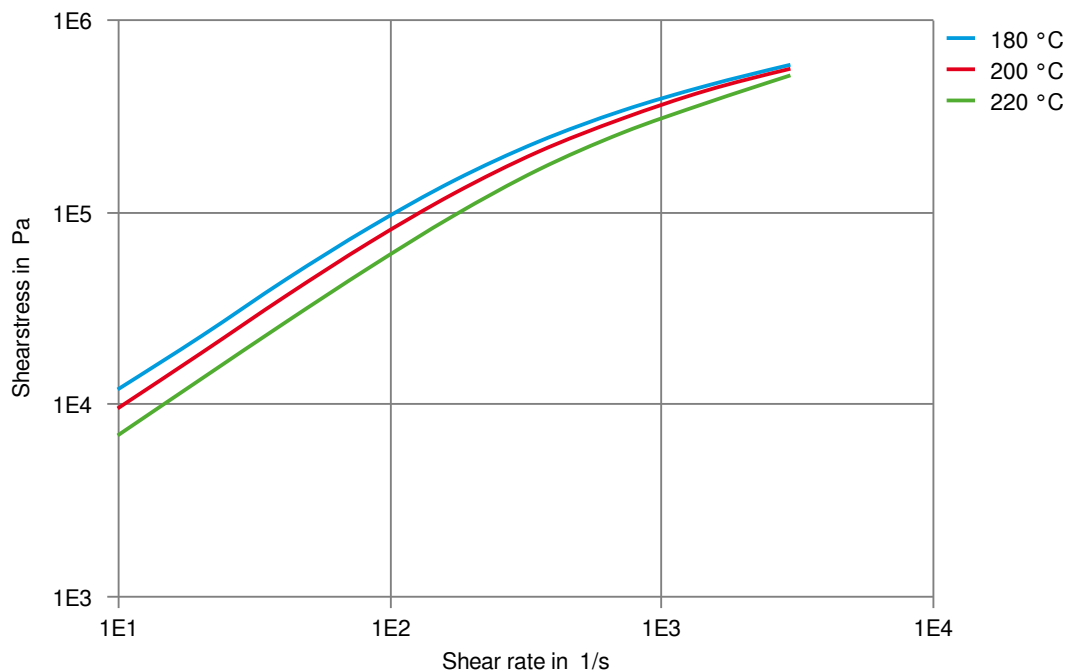
Viscosity-shear rate



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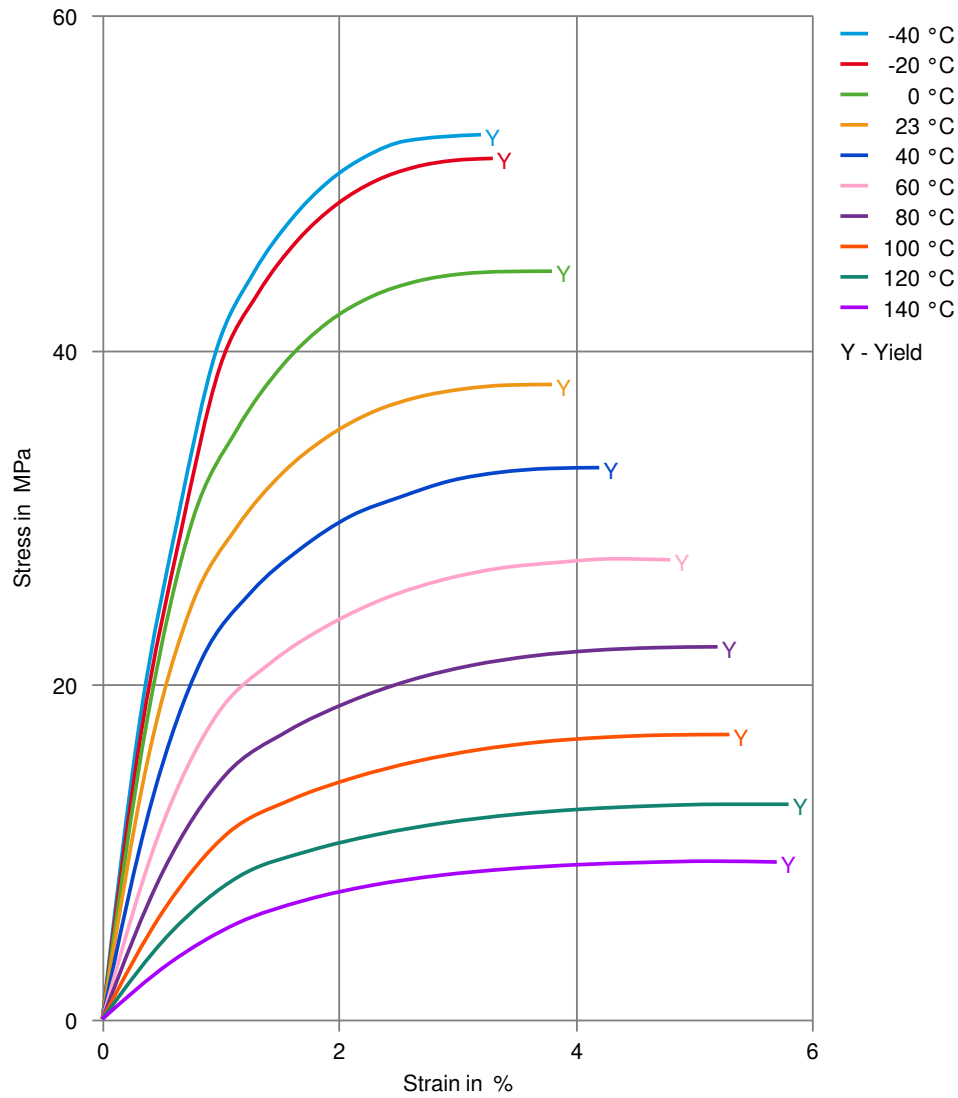
Shearstress-shear rate



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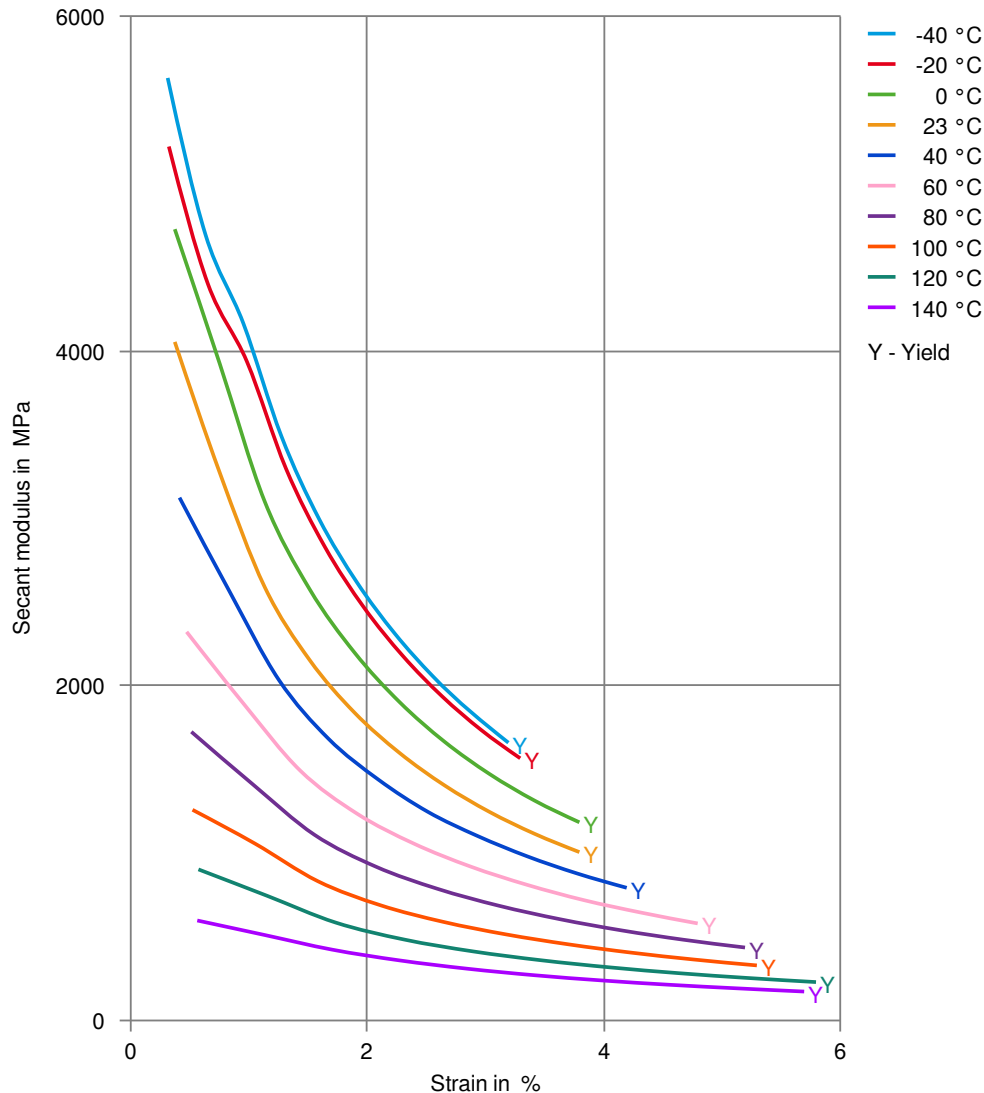
Stress-strain



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Secant modulus-strain



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