

HOSTAFORM[®] C 9021 GV3/10

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 03-002, GB10 POM copolymer Injection molding type, reinforced with ca. 10 % 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 2 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)

Product information

Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
Rheological properties			
Melt volume-flow rate	9	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16		
Moulding shrinkage, parallel	2.0 ^[1]		ISO 294-4, 2577
Moulding shrinkage, normal	1.7 ^[1]	%	ISO 294-4, 2577
[1]: @ 195°C			
Typical mechanical properties			
Tensile modulus	3100	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at vield, 50mm/min	7.5	%	ISO 527-1/-2
Nominal strain at break	17	%	ISO 527-1/-2
Flexural modulus	3000	MPa	ISO 178
Tensile creep modulus, 1h	2800	MPa	ISO 899-1
Tensile creep modulus, 1000h	1500	MPa	ISO 899-1
Charpy impact strength, 23°C	60	kJ/m²	ISO 179/1eU
Charpy impact strength, -30 °C	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C	4	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	108		ISO 75-1/-2
Coefficient of linear thermal expansion	110	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Thermal conductivity of melt	0.195	W/(m K)	ISO 22007-2
Specific heat capacity of melt	1870	J/(kg K)	ISO 22007-4



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Flammability Burning Behav. at 1.5mm nom. thickness 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		1E12 1E14	E-4 Ohm.m	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		0.15 0.8 1470		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		120 60 - 120	h % °C °C °C m/s °C °C MPa MPa	
Characteristics				
Processing Delivery form Additives	Injection Moulding Pellets 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

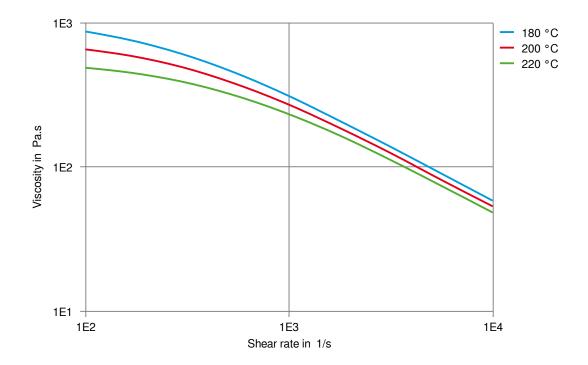
The product can then be stored in standard conditions until processed.

Automotive

OEM Continental STANDARD TST N 055 54.13

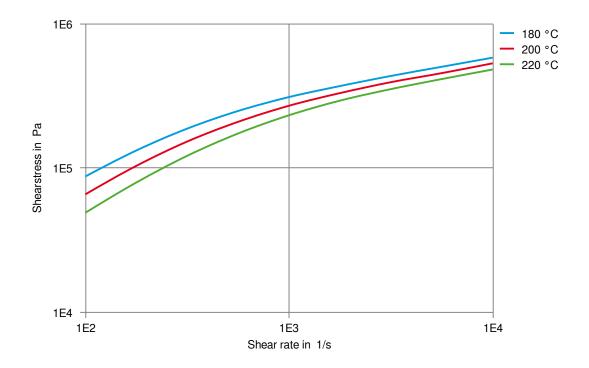


Viscosity-shear rate



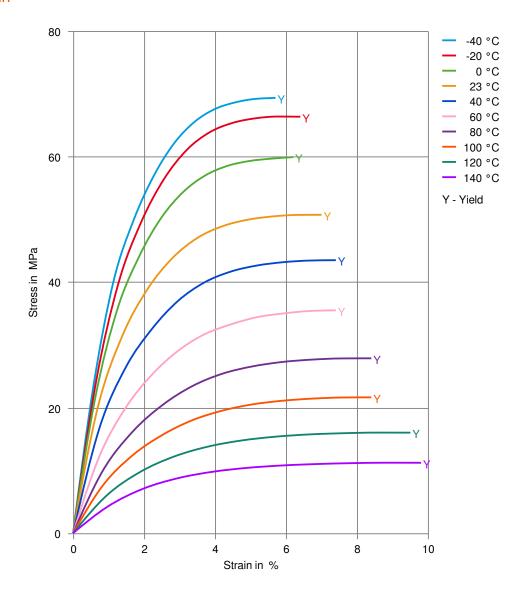


Shearstress-shear rate



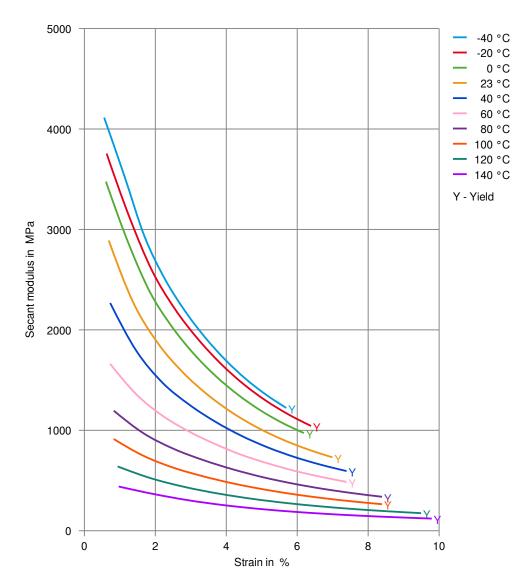


Stress-strain





Secant modulus-strain



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