



HOSTAFORM® C 9021 GV1/20 XGM

HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GS2, 02-003, GF20 POM copolymer Injection molding type, reinforced with ca 20 % glass fibers; includes PTFE for improved wear performance; high resistance to thermal and oxidative degradation; reduced thermal expansion and shrinkage. Ranges of applications: For molded parts requiring improved low wear performance while exhibiting very high strength and rigidity as well as higher hardness. FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

Product information			
Resin Identification Part Marking Code	(POM+PTFE)-GF20 >(POM+PTFE)-GF20<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate Temperature Load	4 190 2.16		ISO 1133
Moulding shrinkage, parallel Moulding shrinkage, normal	0.7 1.1	%	ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural modulus Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Hardness, Rockwell, M-scale Poisson's ratio [C]: Calculated	100 2.5 7400 5.5		ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA ISO 179/1eA ISO 2039-2
Thermal properties			
Melting temperature, 10 ° C/min Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel Coefficient of linear thermal expansion (CLTE), normal			ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Physical/Other properties			
Density	1570	kg/m³	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	no 100 3 - 4 ≤0.2 200 190 210 ≤0.3	h % °C °C	

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Mold Temperature Optimum100 °CMin. mould temperature80 °CMax. mould temperature120 °CHold pressure range60 - 120 MPaBack pressure2 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent

Special characteristics Low wear / Low friction

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.

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.

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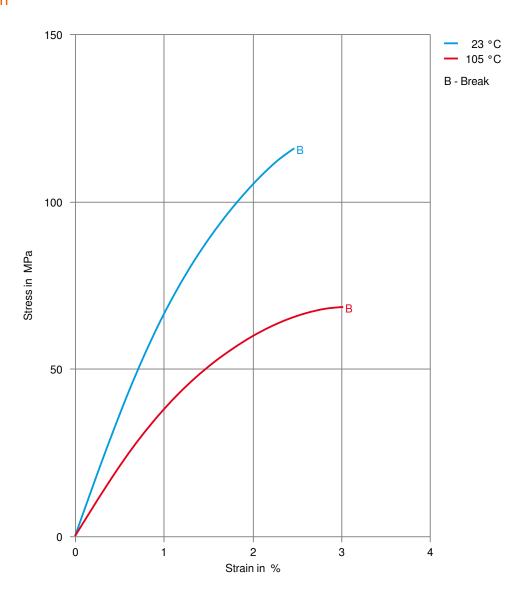
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Stress-strain



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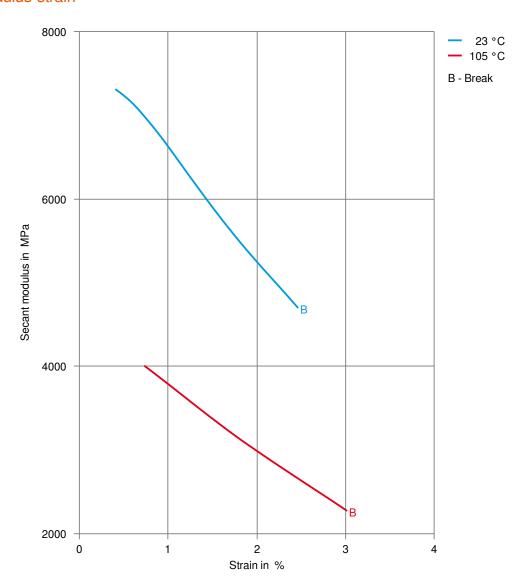
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Secant modulus-strain



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