

HOSTAFORM® C 9021 GV1/10

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Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 02-003, GF10 POM copolymer Injection molding type, reinforced with ca. 10 % glass fibers; high resistance to thermal and oxidative degradation; reduced thermal expansion and shrinkage. UL-registration in natural and black and a thickness more than 1.5 mm as UL 94 HB, temperature index UL 746 B, electrical 105 °C, mechanical 105 °C Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: For molded parts with high strength and rigidity as well as higher 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	6 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.4 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.1 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	4800 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	90 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	4 %	ISO 527-1/-2
Flexural modulus	4500 MPa	ISO 178
Flexural strength	130 MPa	ISO 178
Flexural strain at failure	3.4 %	ISO 178
Tensile creep modulus, 1h	3700 MPa	ISO 899-1
Tensile creep modulus, 1000h	2500 MPa	ISO 899-1
Charpy impact strength, 23 °C	40 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	50 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	6.5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	6.5 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	170 MPa	ISO 2039-1
Poisson's ratio	0.434	

Thermal properties

Melting temperature, 10 °C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	154 °C	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	64 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	80 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	90 E-6/K	ISO 11359-1/-2

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	HB class	IEC 60695-11-10
Thickness tested	3 mm	IEC 60695-11-10

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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.

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.

Processing Notes

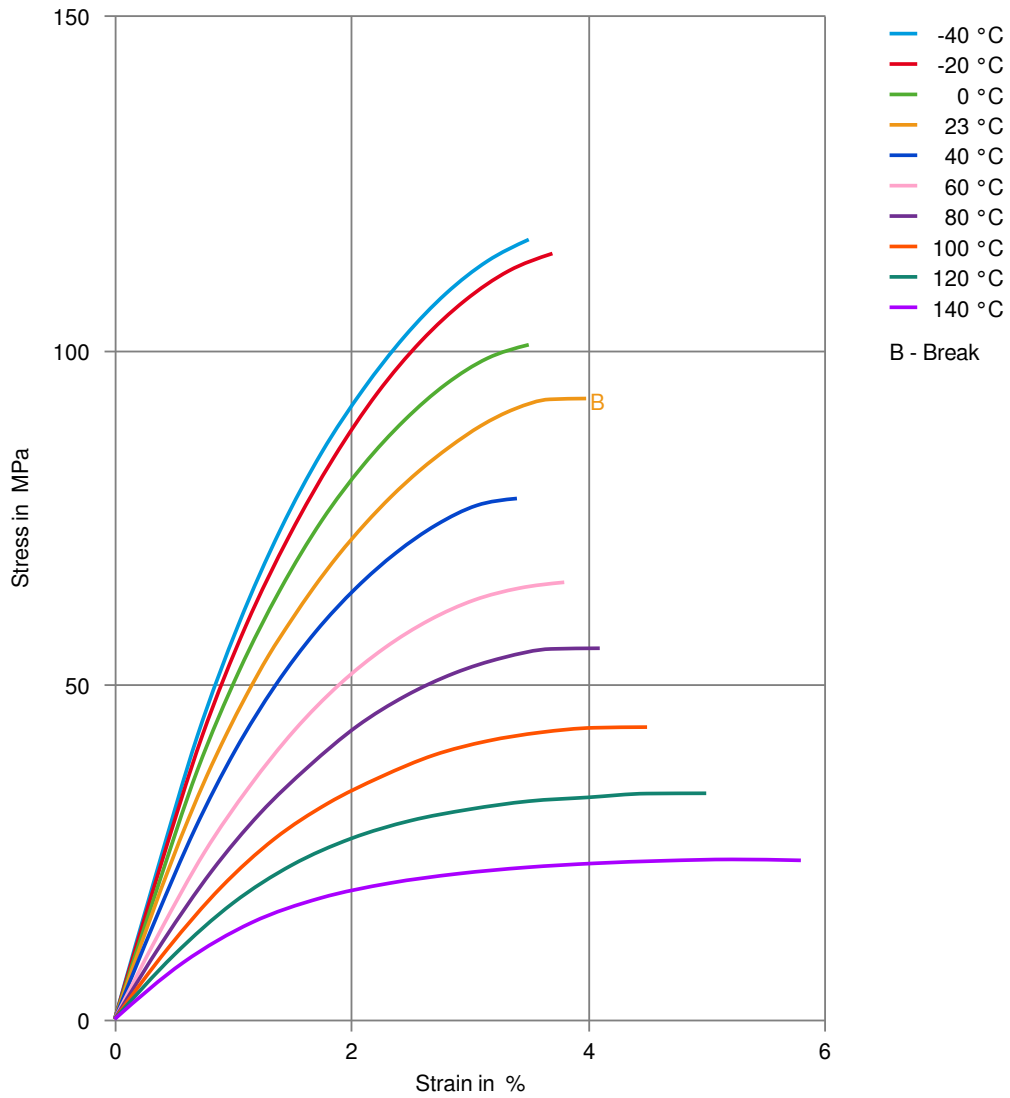
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN22-X006	Natural
Bosch	N28 BN22-X006	Black
Stellantis - Chrysler	MS.50095 / CPN-5090	Black

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Stress-strain



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Secant modulus-strain

