



HOSTAFORM®

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)

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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	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		MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min		%	ISO 527-1/-2
Flexural modulus	4500	MPa	ISO 178
Flexural strength		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/m²	ISO 179/1eU
Charpy impact strength, -30°C	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	6.5	kJ/m²	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	80	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Coefficient of linear thermal expansion (CLTE), normal	90	E-6/K	ISO 11359-1/-2
Flammability			
Burning Behav. at 1.5mm nom. thickn.	НВ	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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UL recognition	yes		UL 94
Electrical properties			
Relative permittivity, 100Hz	4.1		IEC 62631-2-1
Relative permittivity, 1MHz	4.1		IEC 62631-2-1
Dissipation factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	60	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	0.19	%	Sim. to ISO 62
Water absorption, 2mm	0.85	%	Sim. to ISO 62
Density	1480	kg/m³	ISO 1183
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	≤0.2 °	%	
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200 °C Melt Temperature Optimum 190 °C Min. melt temperature Max. melt temperature 210 °C Screw tangential speed ≤0.3 m/s Mold Temperature Optimum 100 °C 80 °C Min. mould temperature 120 °C Max. mould temperature Hold pressure range 60 - 120 MPa Back pressure 2 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent

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.

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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

BoschN28 BN22-X006NaturalBoschN28 BN22-X006BlackStellantis - ChryslerMS.50095 / CPN-5090Black

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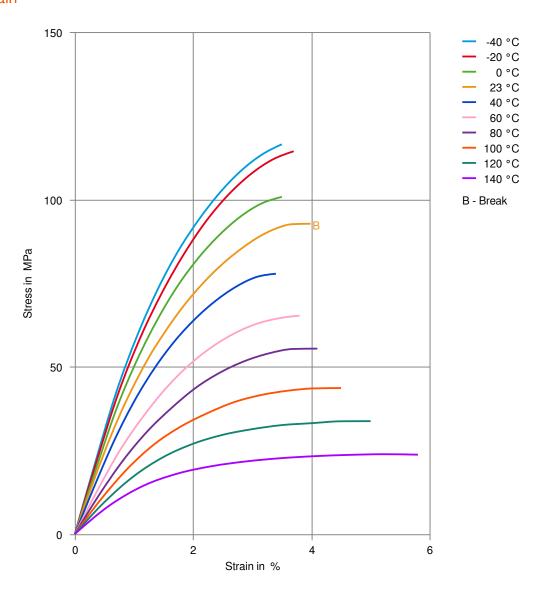
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Stress-strain



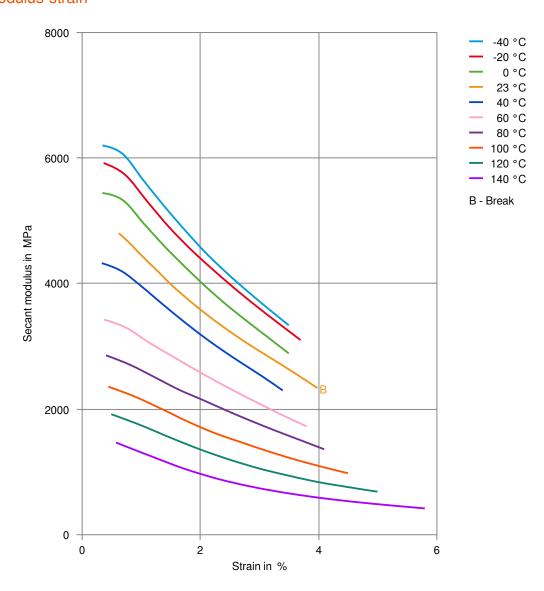
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Secant modulus-strain



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