

HOSTAFORM® C 13021 10/1570

POM copolymer

Easy flowing Injection molding type for precision molded parts and thin-walled molded parts with high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. With a high amount of carbon black . Ranges of applications: automotive engineering, especially out door applications

Rheological properties

Melt volume-flow rate	12 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage range, parallel	2.0 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2900 MPa	ISO 527-1/-2
Yield stress, 50mm/min	65 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	25 %	ISO 527-1/-2
Flexural Modulus	2800 MPa	ISO 178
Tensile creep modulus, 1h	2500 MPa	ISO 899-1
Tensile creep modulus, 1000h	1300 MPa	ISO 899-1
Charpy impact strength, 23°C	200 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	200 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 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	143 MPa	ISO 2039-1

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	106 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	151 °C	ISO 306
Coeff. of linear therm. expansion, parallel	110 E-6/K	ISO 11359-1/-2
Thermal conductivity of melt	0.155 W/(m K)	Internal
Spec. heat capacity of melt	2210 J/(kg K)	Internal

Electrical properties

Relative permittivity, 100Hz	4	IEC 62631-2-1
Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 100Hz	20 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50 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

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Comparative tracking index

PLC 0 PLC

UL 746A

Other properties

Humidity absorption, 2mm

0.2 %

Sim. to ISO 62

Water absorption, 2mm

0.65 %

Sim. to ISO 62

Density

1410 kg/m³

ISO 1183

Density of melt

1200 kg/m³

Internal

Injection

Drying Temperature

100 - 120 °C

Drying Time, Dehumidified Dryer

3 - 4 h

Processing Moisture Content

0.15 %

Screw tangential speed

0.2 - 0.21 m/s

Max. mould temperature

80 - 120 °C

Back pressure

4 MPa

Injection speed

slow-medium

Ejection temperature

140 °C

Internal

Characteristics

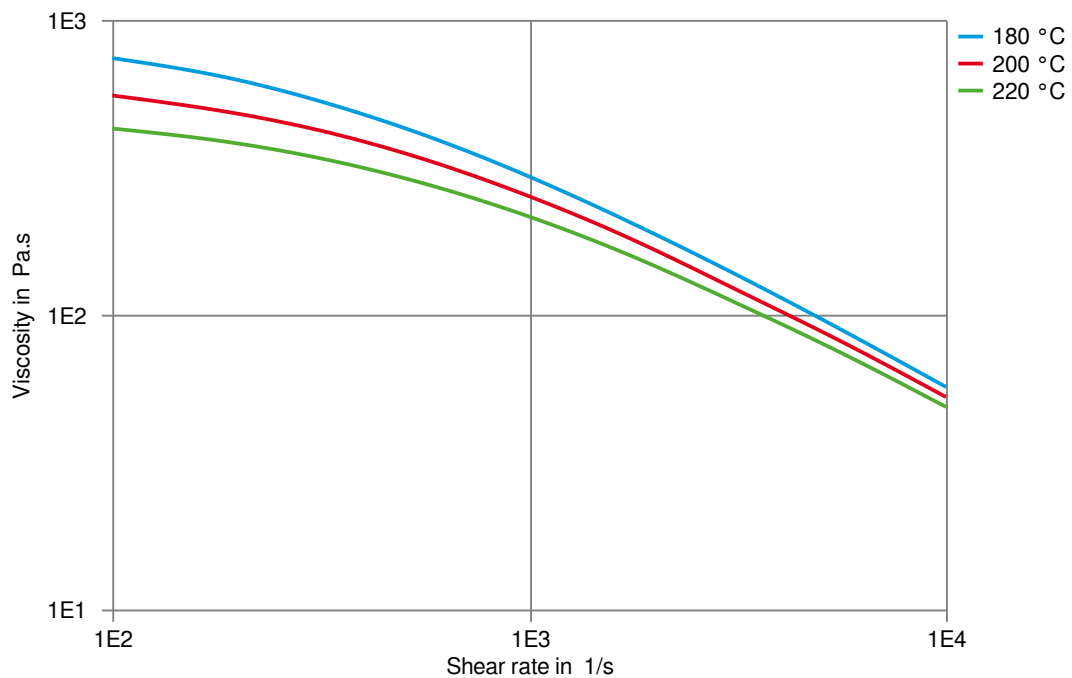
Additives

Release agent



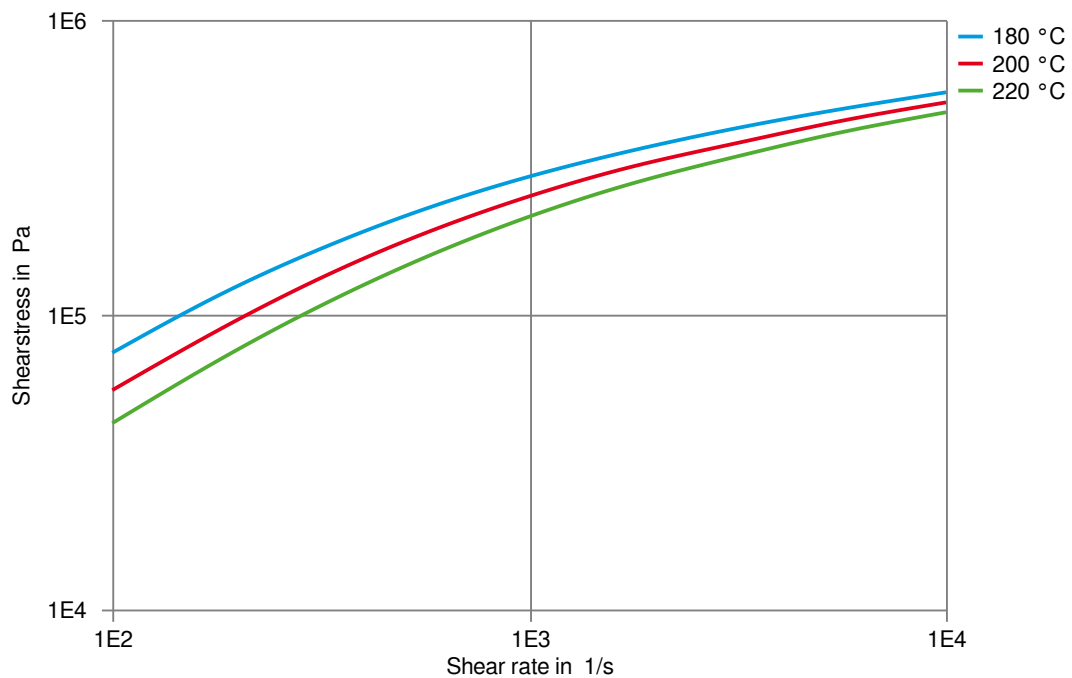
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Viscosity-shear rate



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Shearstress-shear rate

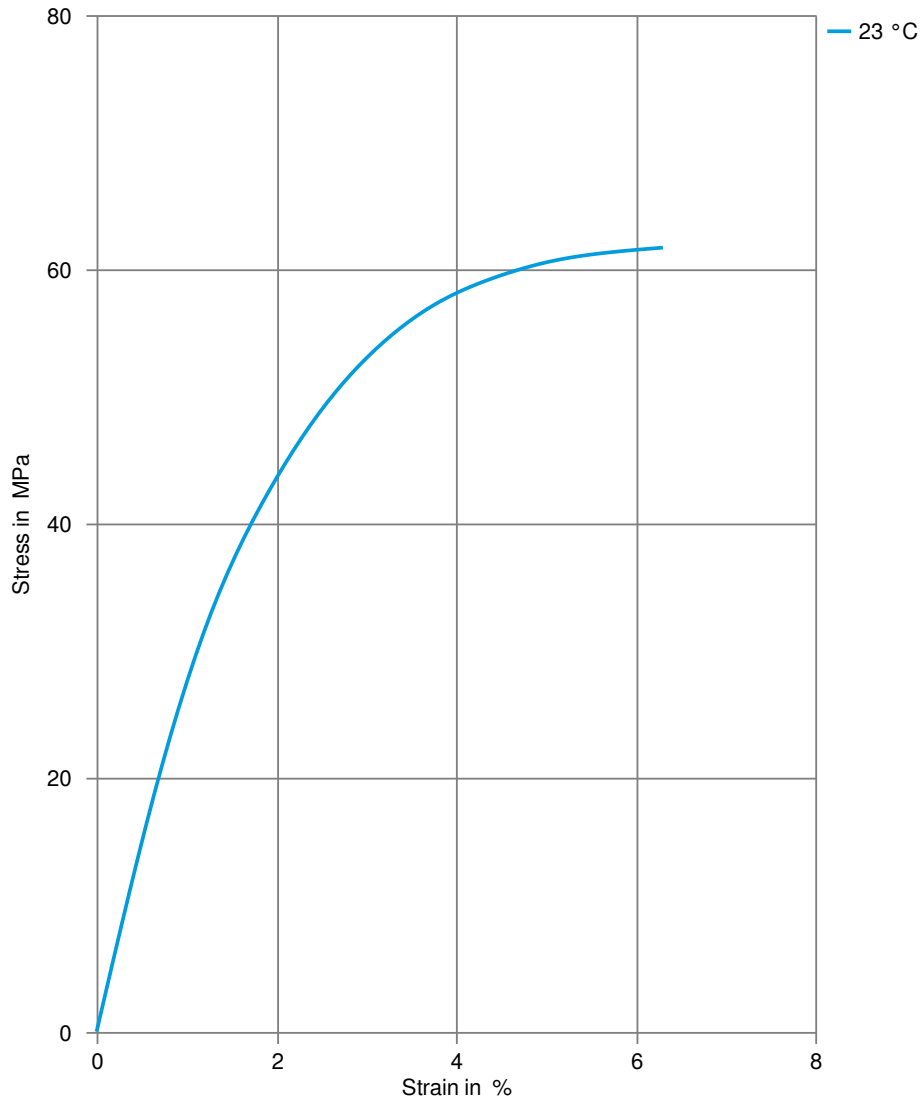


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Stress-strain

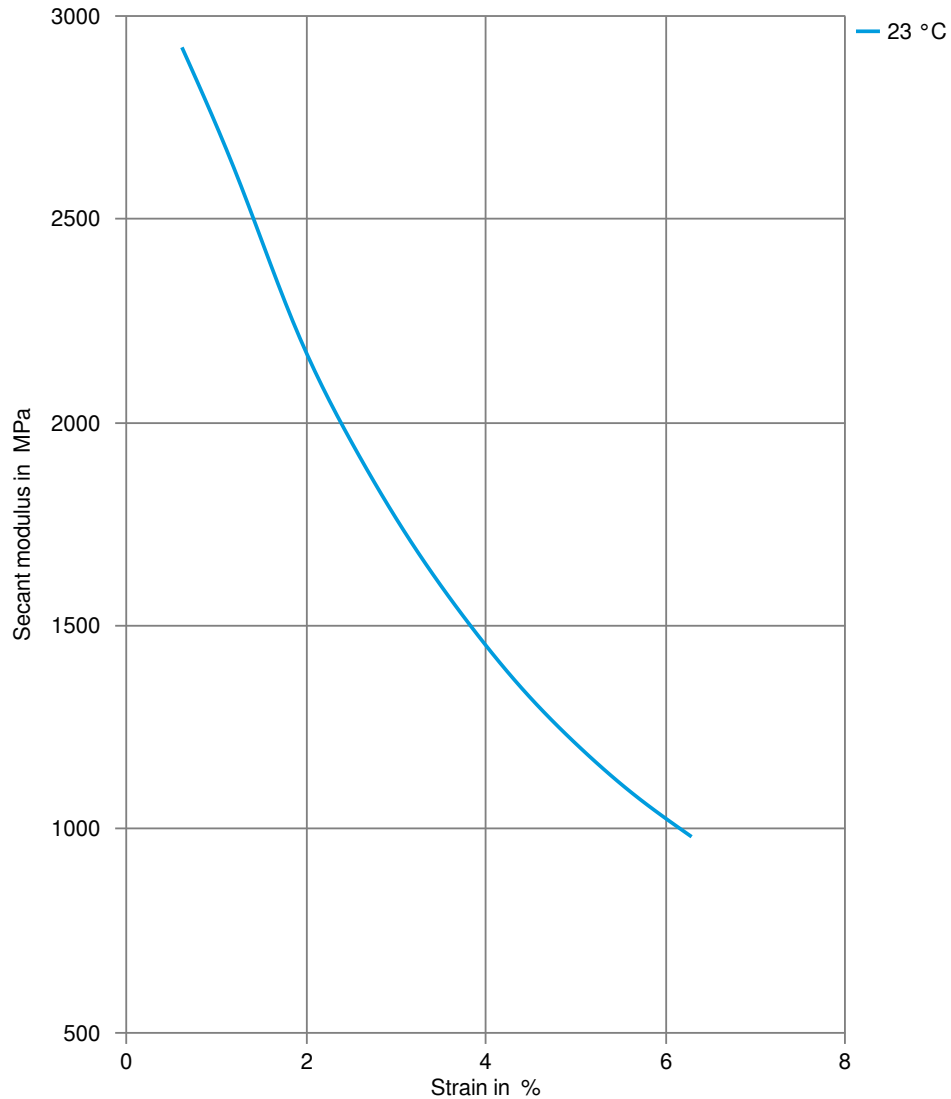


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Secant modulus-strain



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Processing Texts

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.

Longer pre-drying times/storage

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

Other Approvals

Other Approvals

OEM	Specification
Bosch	N28 BN22-O027

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