

HOSTAFORM® S 27072 WS 10/1570

Easy flowing; elastomer-containing injection molding grade; black; weathering resistant
 Chemical abbreviation according to ISO 1043-1: POM-HI Molding compound ISO 29988- POM-K, M-GCLP, 05-001
 Modified POM copolymer Easy flowing, elastomer-containing injection molding type in color modifying black 10/1570;
 especially weathering resistant; lower chemical resistance than the basic type HOSTAFORM® C 27021; high resistance to
 thermal and oxidative degradation. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm.
 Ranges of applications: for molded parts with matt surface. FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

Part Marking Code	POM-HI	ISO 11469
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Rheological properties

Melt volume-flow rate	21 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.8 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2000 MPa	ISO 527-1/-2
Yield stress, 50mm/min	46 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8 %	ISO 527-1/-2
Nominal strain at break	35 %	ISO 527-1/-2
Flexural Modulus	2100 MPa	ISO 178
Tensile creep modulus, 1h	1800 MPa	ISO 899-1
Tensile creep modulus, 1000h	1000 MPa	ISO 899-1
Charpy impact strength, 23 °C	150 ^[P] kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	110 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	11 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	8 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	115 MPa	ISO 2039-1

[P]: Partial Break

Thermal properties

Melting temperature, 10 °C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	84 °C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h, 50N	135 °C	ISO 306
Coeff. of linear therm. expansion, parallel	120 E-6/K	ISO 11359-1/-2

HOSTAFORM® S 27072 WS 10/1570

Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.7 %	Sim. to ISO 62
Density	1390 kg/m ³	ISO 1183

Injection

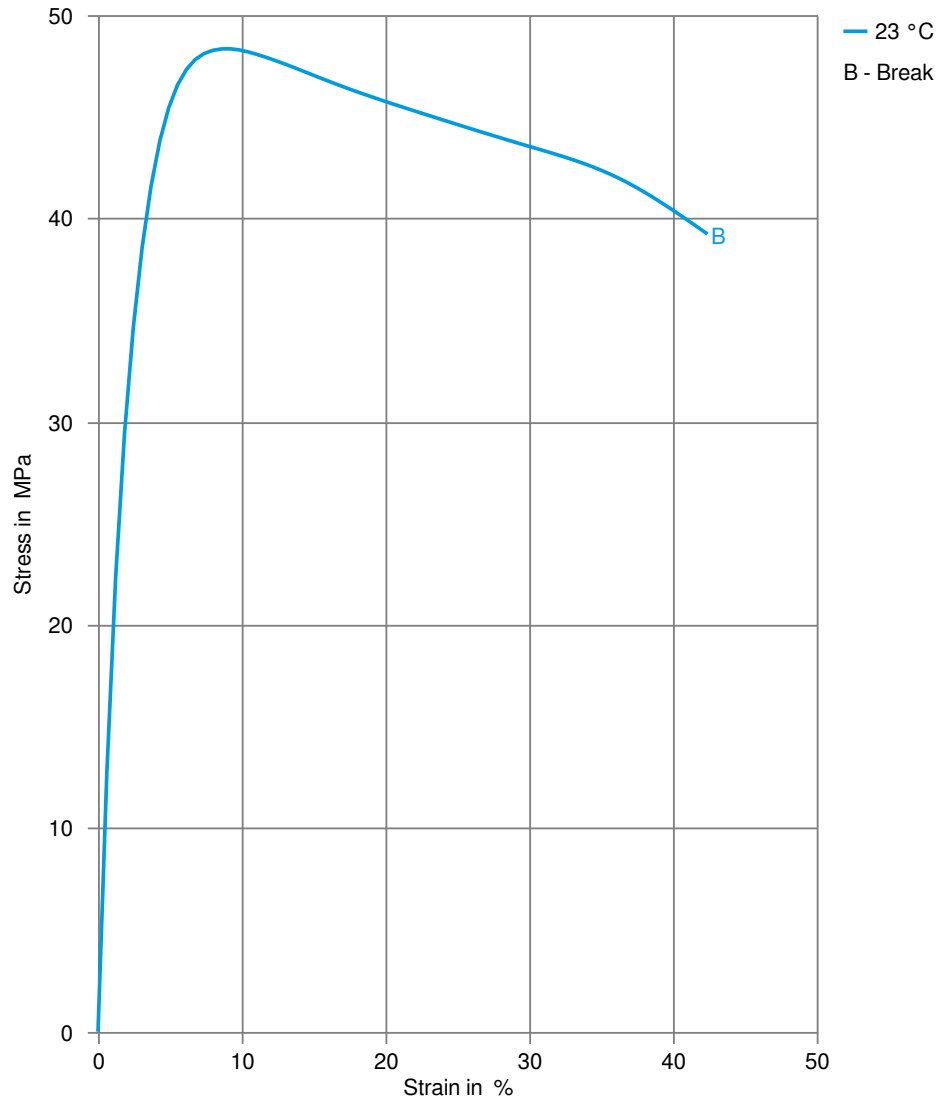
Drying Temperature	100 - 120 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Max. mould temperature	60 - 70 °C
Back pressure	2 MPa
Injection speed	slow

Characteristics

Additives	Release agent
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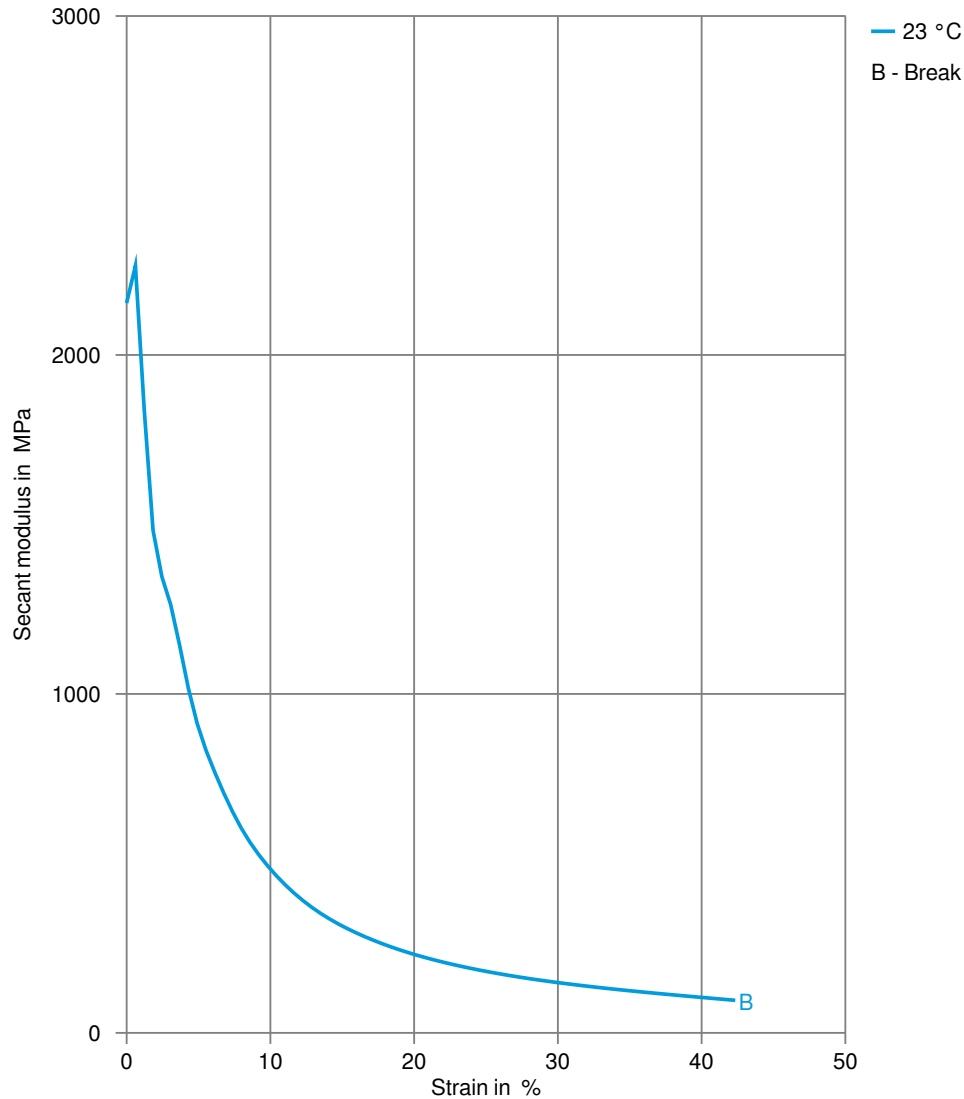
HOSTAFORM® S 27072 WS 10/1570

Stress-strain



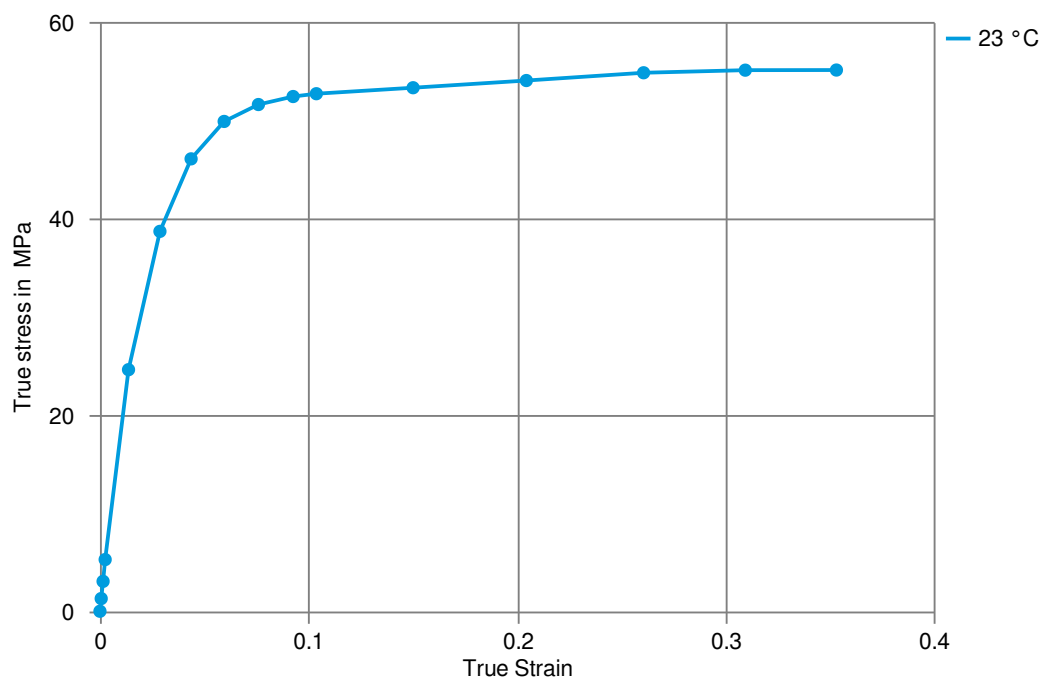
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Secant modulus-strain



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True stress-strain



HOSTAFORM® S 27072 WS 10/1570

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Continental	TST N 055 54.17	
Ford	WSK-M4D839-A	Black 10/1570
Li Auto	Q/LiA5310020	2021 (V2)

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