

HOSTAFORM® H100

HOSTAFORM®

- A high viscosity and unfilled polyacetal homopolymer
- Excellent mechanical properties compared to polyacetal copolymer
- Various applications such as gears, automotive door system, bushings, housings, rollers, and conveyor belts.

Product information

Resin Identification	POM	ISO 1043
Part Marking Code	>POM<	ISO 11469

Rheological properties

Melt mass-flow rate	2.2 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	2.2 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2950 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	70 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20 %	ISO 527-1/-2
Nominal strain at break	45 %	ISO 527-1/-2
Flexural modulus	2650 MPa	ISO 178
Flexural strength	92 MPa	ISO 178
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
Poisson's ratio	0.37 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	176 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	95 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	110 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	110 E-6/K	ISO 11359-1/-2

Physical/Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.2 %	Sim. to ISO 62
Density	1420 kg/m ³	ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.1 %
Melt Temperature Optimum	205 °C
Min. melt temperature	190 °C
Max. melt temperature	220 °C
Mold Temperature Optimum	80 °C

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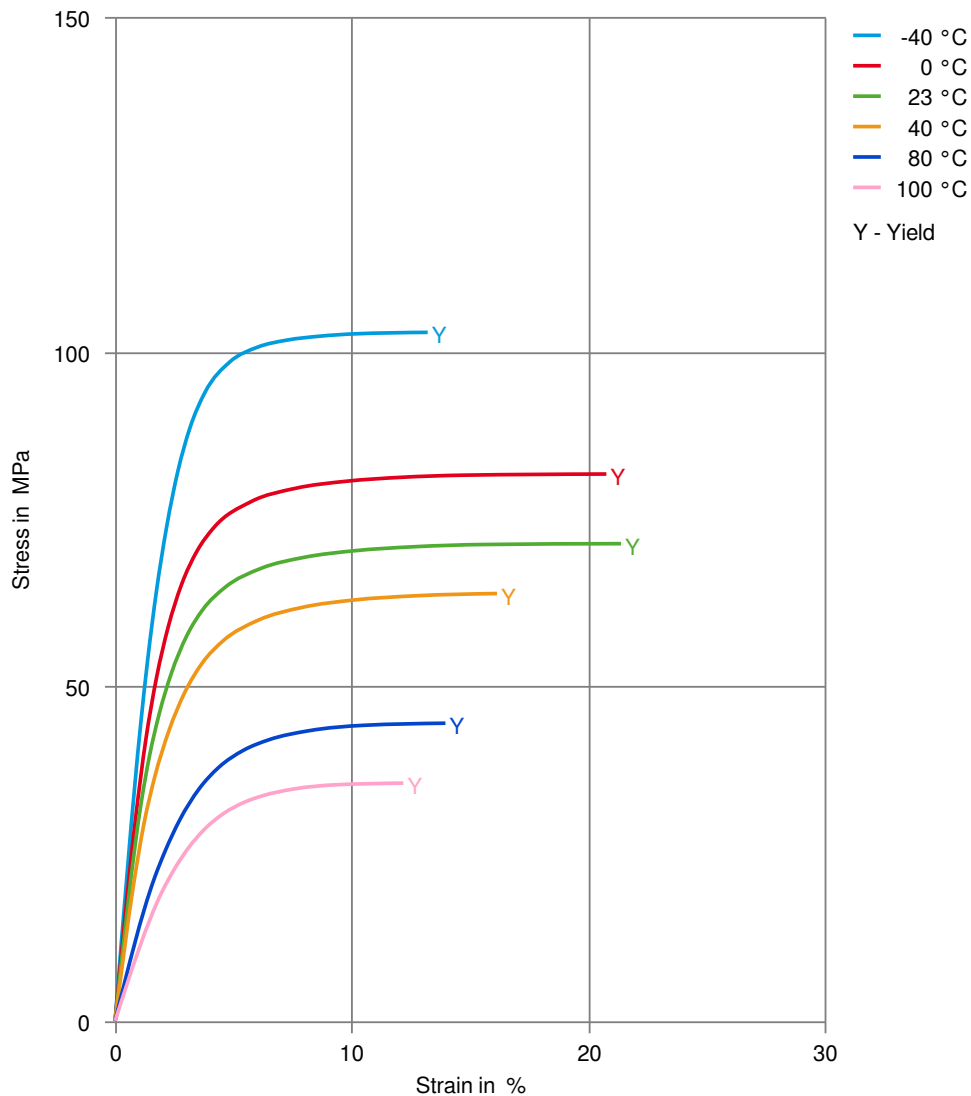
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Min. mould temperature	60 °C
Max. mould temperature	90 °C
Hold pressure range	60 - 120 MPa

Characteristics

Processing	Injection Moulding
Delivery form	Pellets

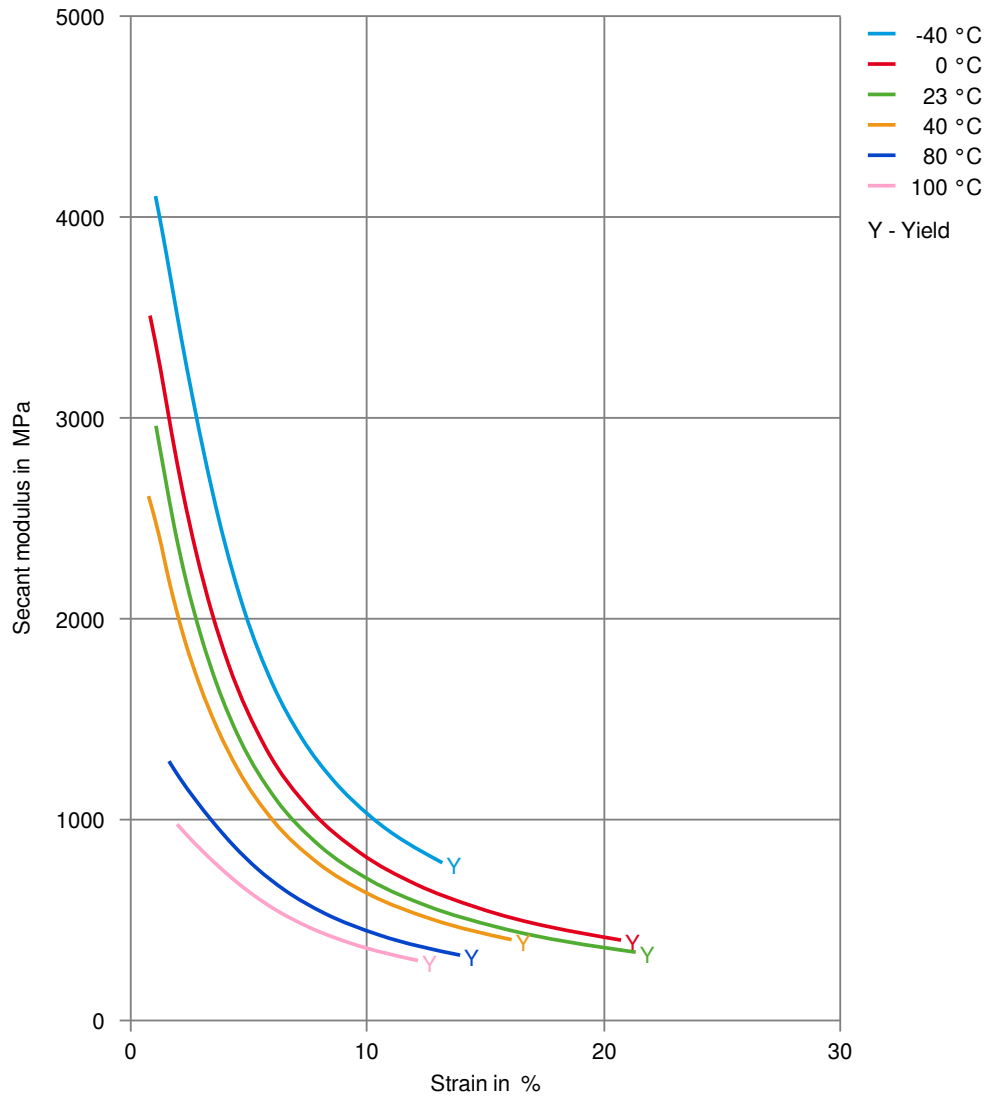
Stress-strain



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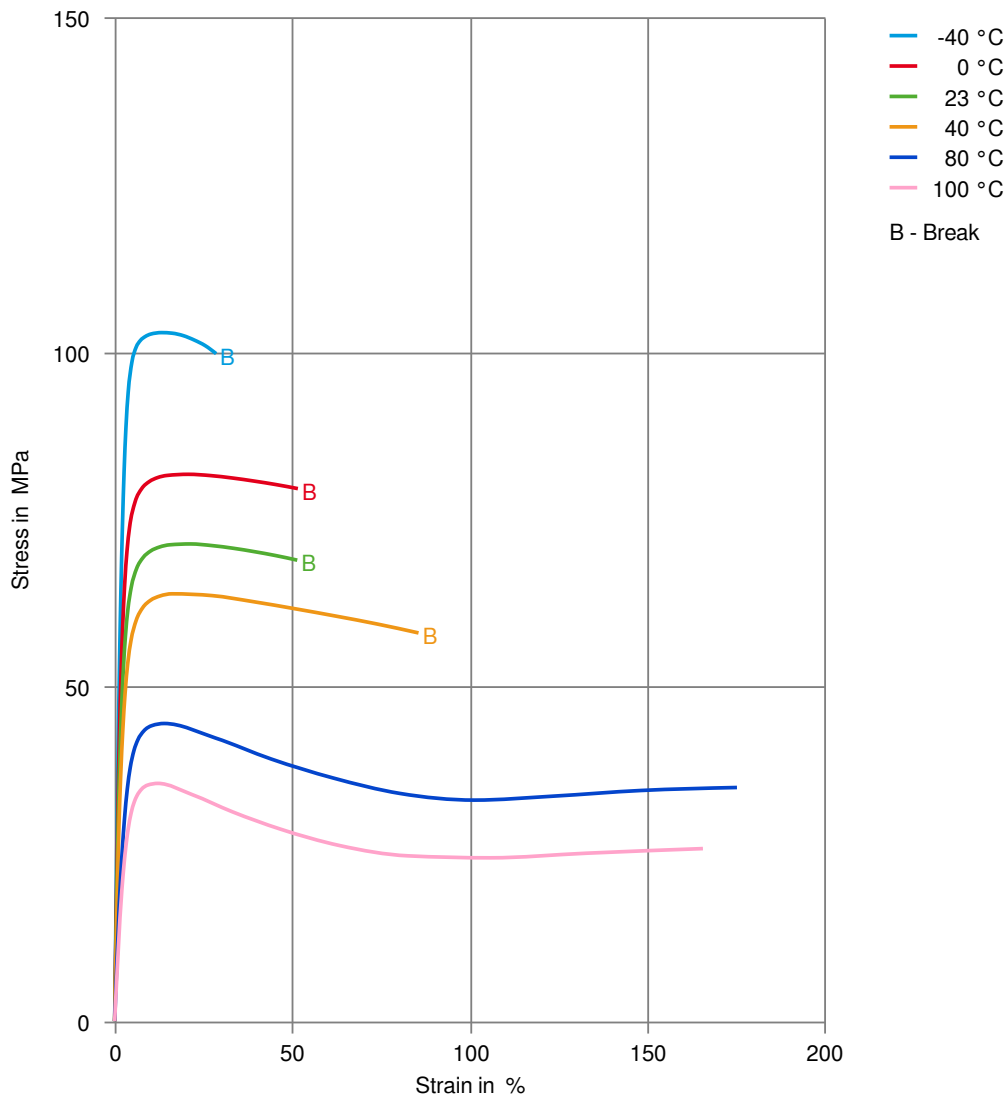
Secant modulus-strain



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Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min

