

HOSTAFORM® M90XAP®

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Hostaform® acetal copolymer grade M90XAP® is a low emission version, medium viscosity polymer providing optimum performance in injection molding, and primarily for the interior automotive market. This grade provides overall excellent performance in many applications.

Product information

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

Rheological properties

Melt volume-flow rate	8 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.8 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2600 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9.5 %	ISO 527-1/-2
Flexural modulus	2560 MPa	ISO 178
Flexural stress at 3.5%	73 MPa	ISO 178
Charpy notched impact strength, 23 °C	6.4 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23 °C	5.4 kJ/m ²	ISO 180/1A
Hardness, Rockwell, M-scale	78	ISO 2039-2
Poisson's ratio	0.38 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	157 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	120 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	120 E-6/K	ISO 11359-1/-2

Electrical properties

Surface resistivity	1.3E16 Ohm	IEC 62631-3-2
Arc Resistance	240 s	UL 746B

Physical/Other properties

Density	1410 kg/m ³	ISO 1183
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Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	200 °C
Min. melt temperature	190 °C
Max. melt temperature	210 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

Characteristics

Processing	Injection Moulding, Extrusion
Delivery form	Pellets
Special characteristics	Low emissions

Additional information

Processing Notes

Pre-Drying

Drying is recommended to obtain optimum emission performance. If material contacts moisture through improper storage or handling, drying may be necessary to prevent splay and odor issues.

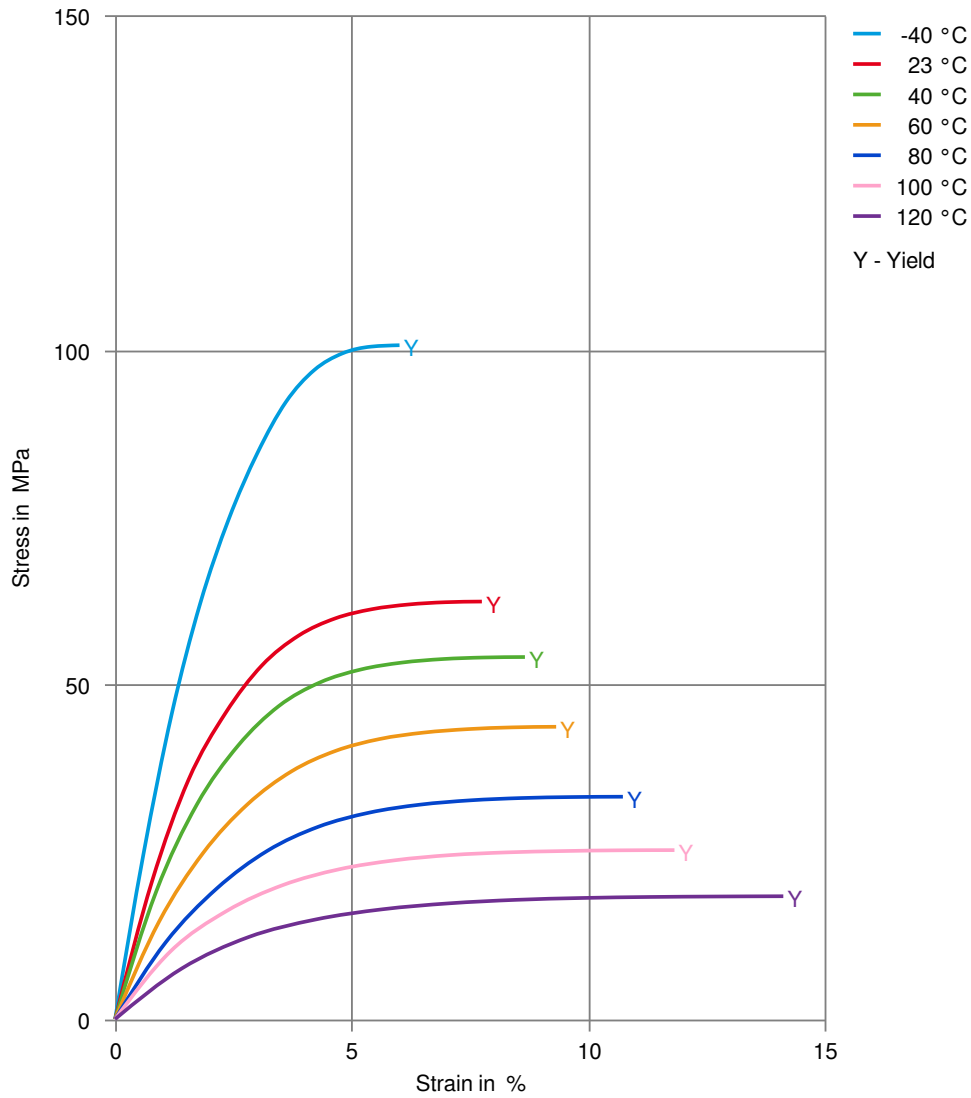
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Changan	MTS-F01-02-001-A3	2019
Mercedes-Benz	DBL5410	

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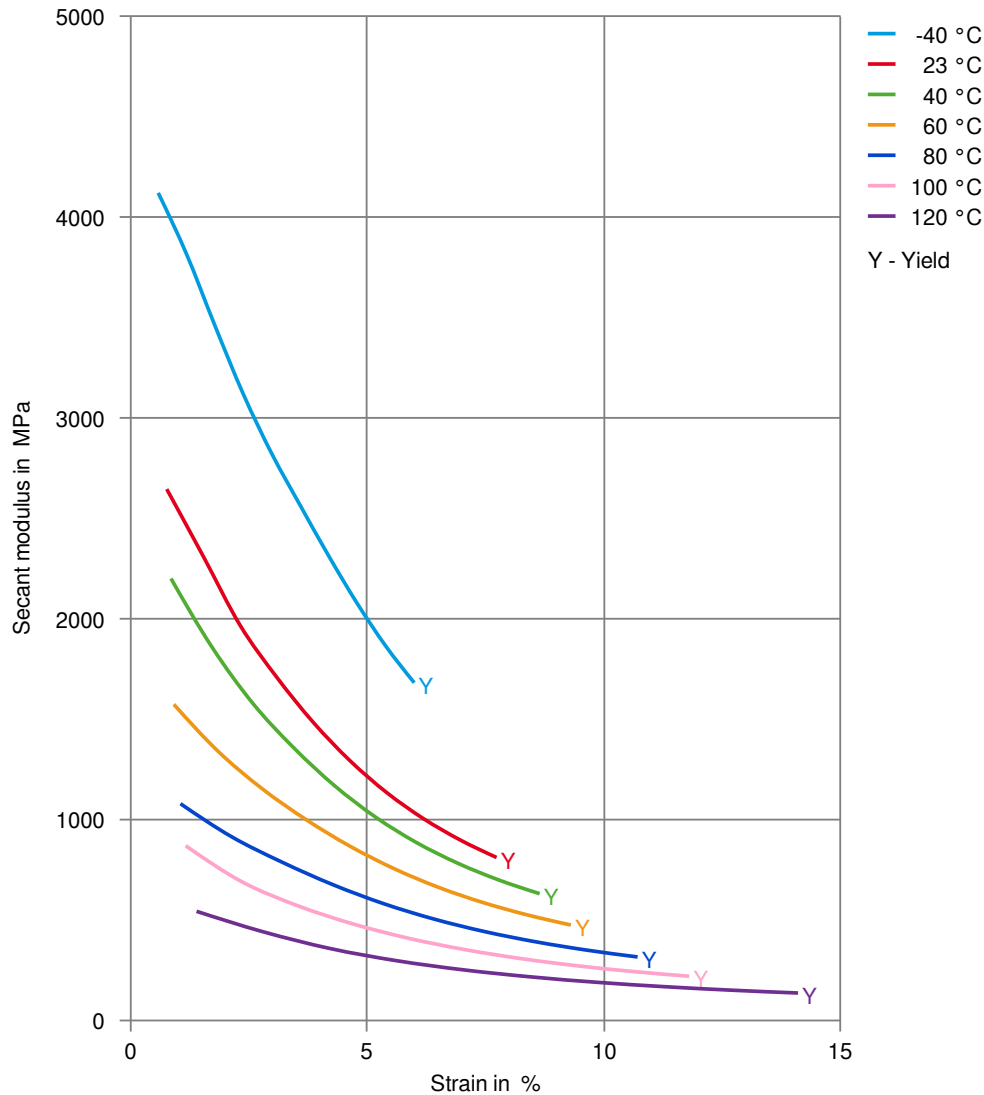
Stress-strain



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Secant modulus-strain



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Page: 4 of 4

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