

# HOSTAFORM® S 9364 XAP®2

## HOSTAFORM®

Hostaform® acetal copolymer grade S 9364 XAP®2 is a highly impact modified grade for demanding applications. Hostaform® S 9364 XAP®2 provides a significant improvement in impact strength and flexibility over standard impact modified grades.

Hostaform® S 9364 XAP®2 exhibits exceptional low emission performance meeting or exceeding the requirements of many automotive markets. Chemical abbreviation according to ISO 1043-1: POM-HI

### Product information

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

### Rheological properties

Melt volume-flow rate	4 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.6 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.5 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	1650 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	43 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	16 %	ISO 527-1/-2
Flexural modulus	1550 MPa	ISO 178
Flexural stress at 3.5%	42 MPa	ISO 178
Charpy impact strength, 23 °C	N kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30 °C	N kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23 °C	21 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C	11 kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23 °C	20 kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -40 °C	10.0 kJ/m <sup>2</sup>	ISO 180/1A
Hardness, Rockwell, M-scale	48	ISO 2039-2
Poisson's ratio	0.42 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10 °C/min	165 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	75 °C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	140 °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	110 E-6/K	ISO 11359-1/-2

### Physical/Other properties

Humidity absorption, 2mm	0.25 %	Sim. to ISO 62
Water absorption, 2mm	0.8 %	Sim. to ISO 62
Density	1360 kg/m <sup>3</sup>	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	190 °C
Min. melt temperature	180 °C
Max. melt temperature	200 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	65 °C
Min. mould temperature	60 °C
Max. mould temperature	70 °C
Hold pressure range	60 - 120 MPa
Back pressure	2 MPa

### Characteristics

Processing	Injection Moulding, Extrusion
Delivery form	Pellets
Additives	Release agent
Special characteristics	High impact or impact modified, Low emissions

### Additional information

Processing Notes

### Pre-Drying

Drying is suggested to help achieve low emission performance and to counter if material has contacted moisture through improper storage and handling.

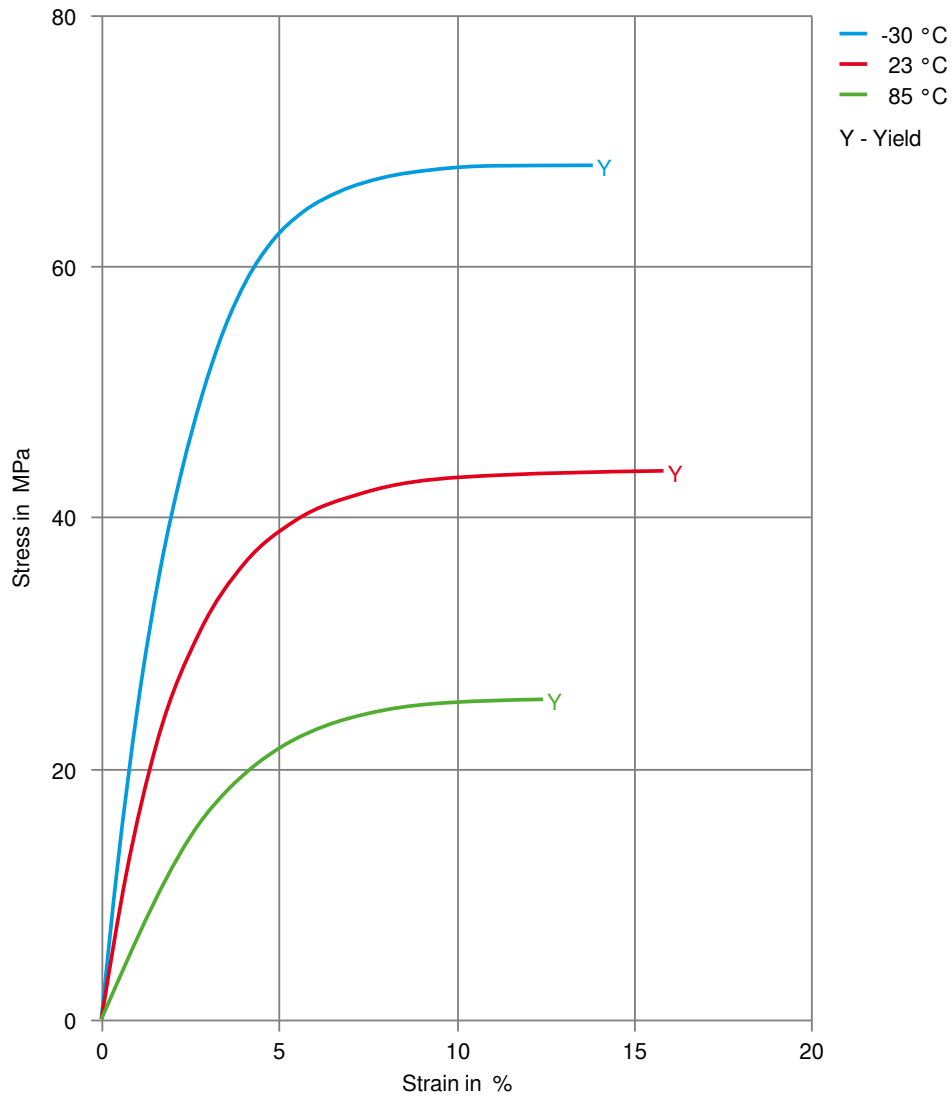
### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BAIC	Q-BJEV 01.59	
Ford	WSK-M4D618-A2	
Li Auto	Q/LiA5310020	2021 (V2)
Mercedes-Benz	DBL5404	BQF
Mercedes-Benz	DBL5410	
Renault	No Spec, Special Part Approval, See Your CE Account Manager.	
SAIC Motor	SMTc 5 310 020	
VW Group	TL 522 77	
VW Group	VW 50180	

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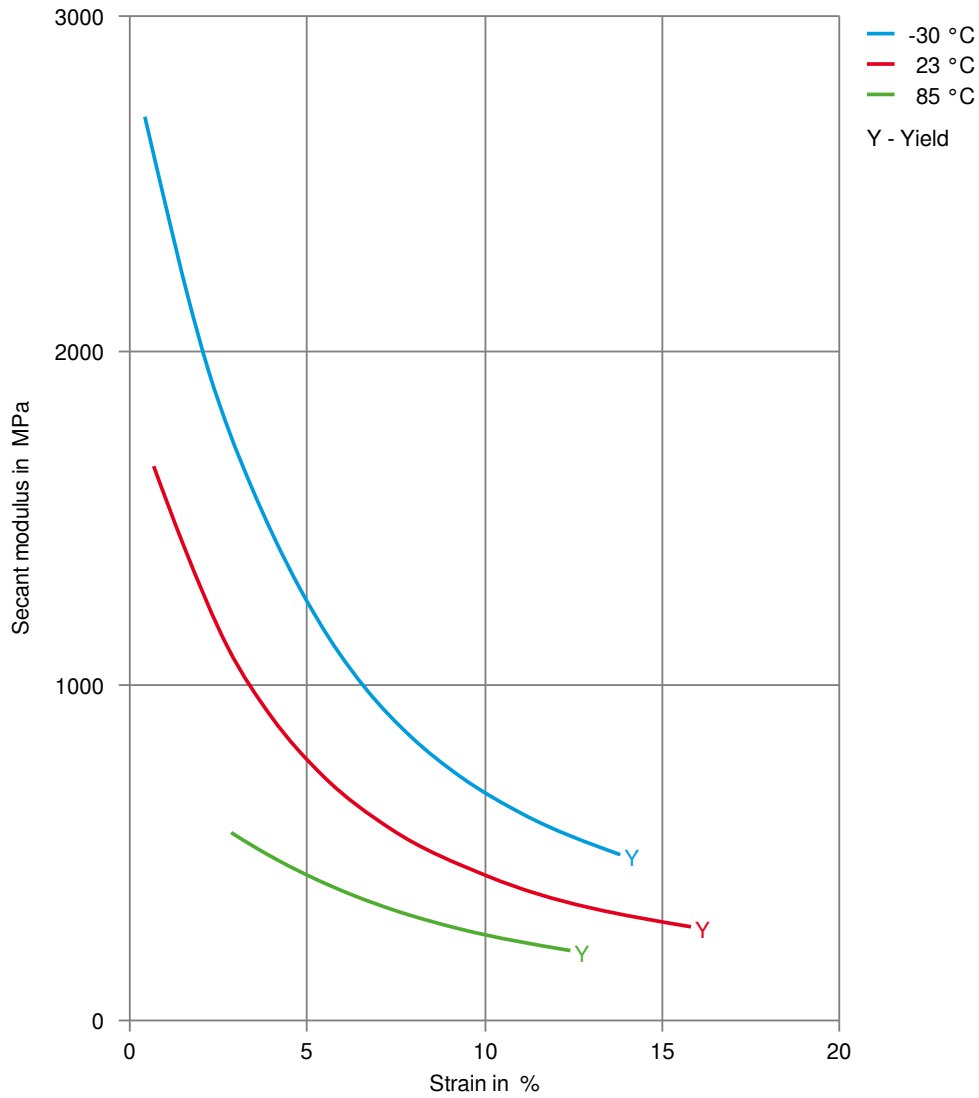
### Stress-strain



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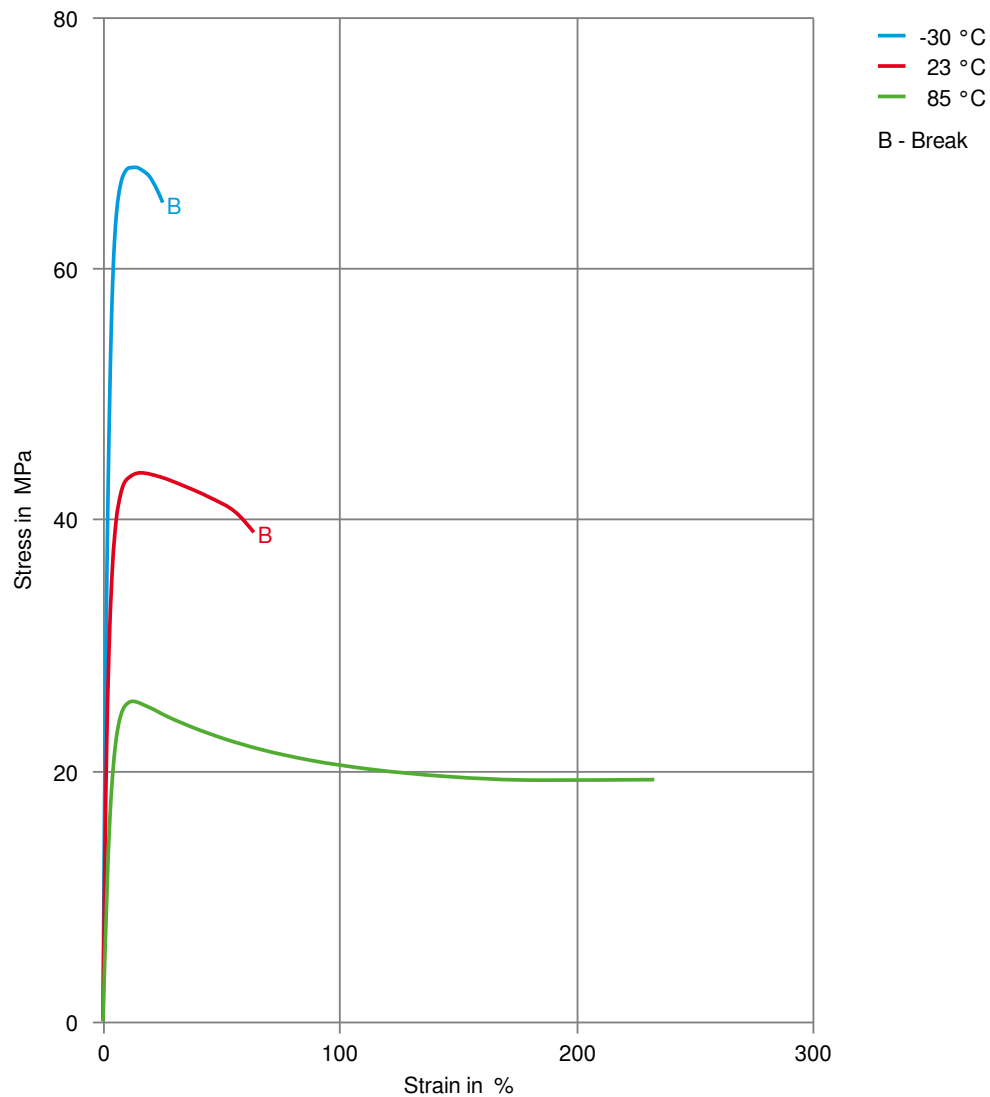
### Secant modulus-strain



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## HOSTAFORM®

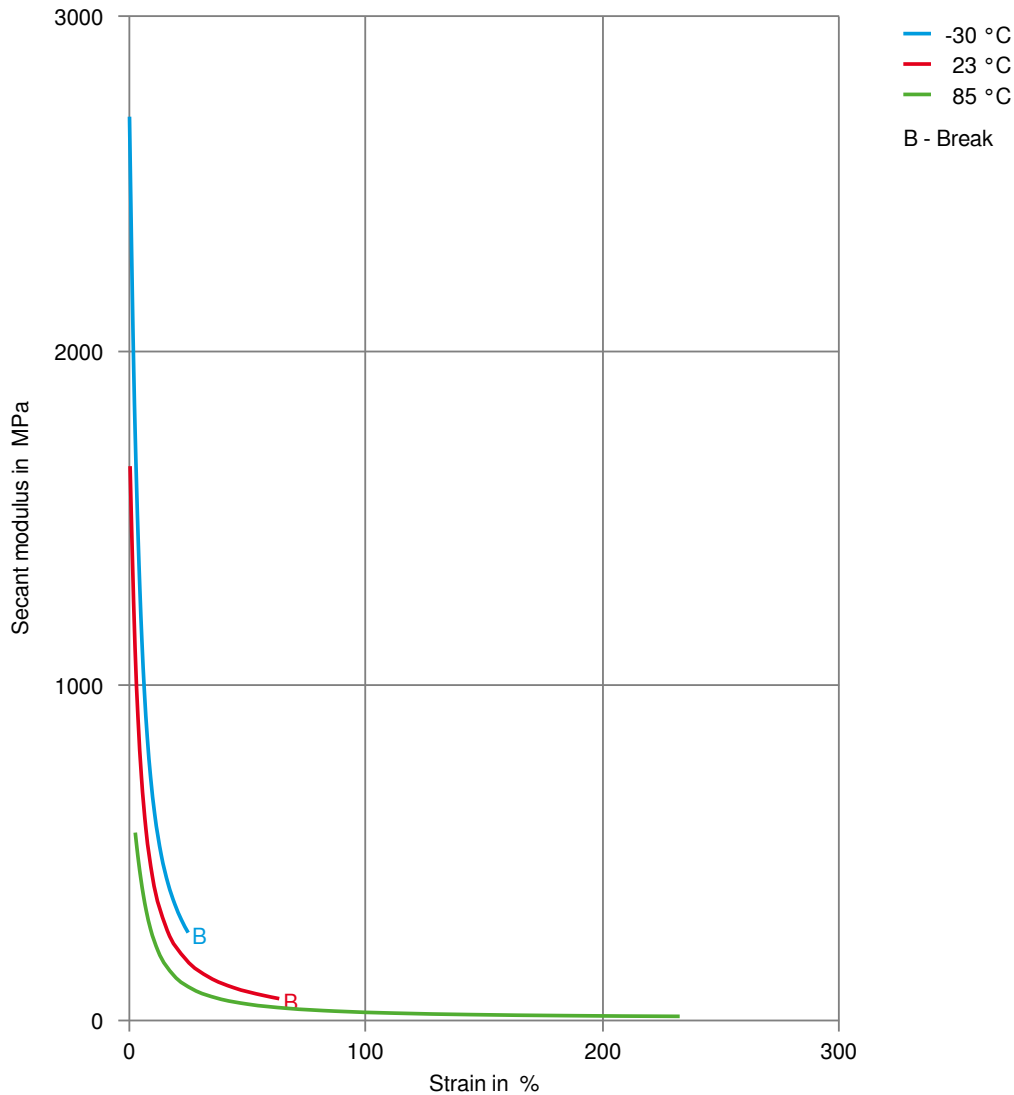
Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min



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