

# 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.

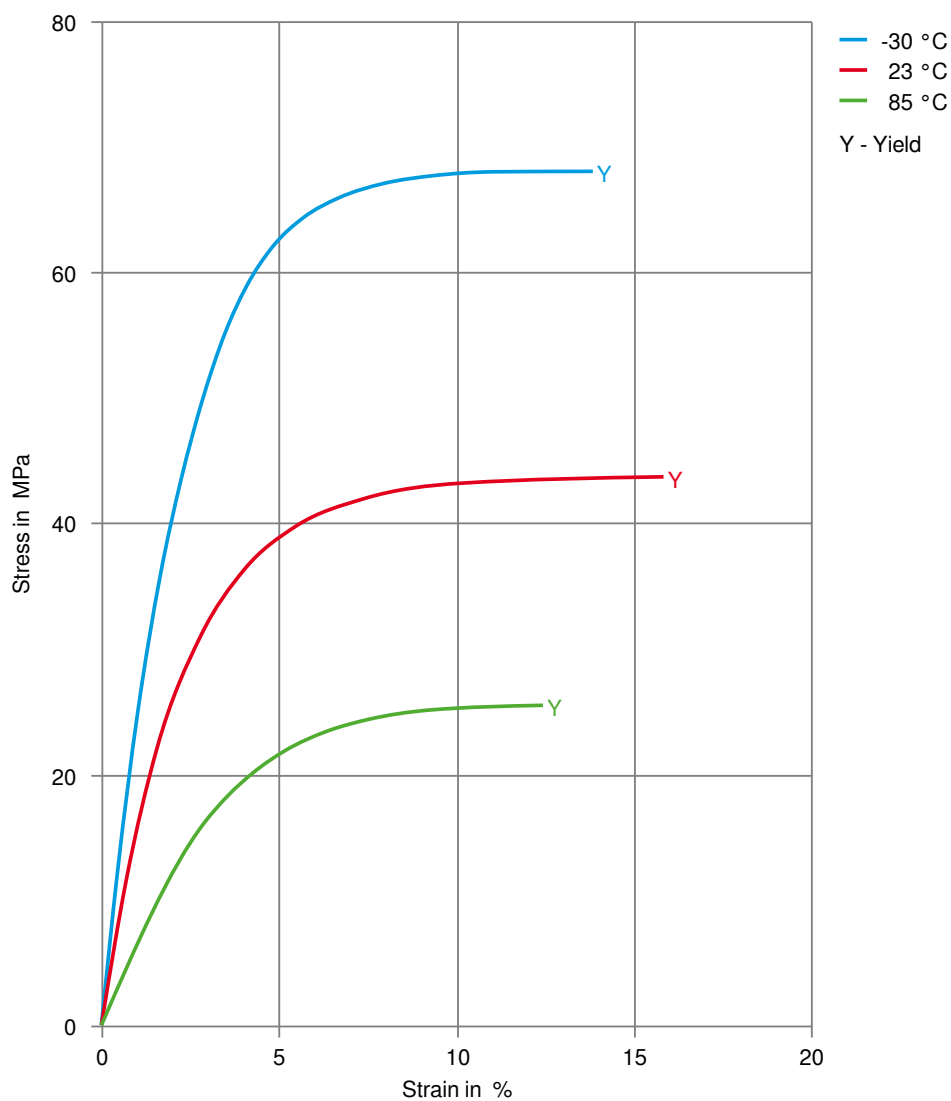
### Automotive

| 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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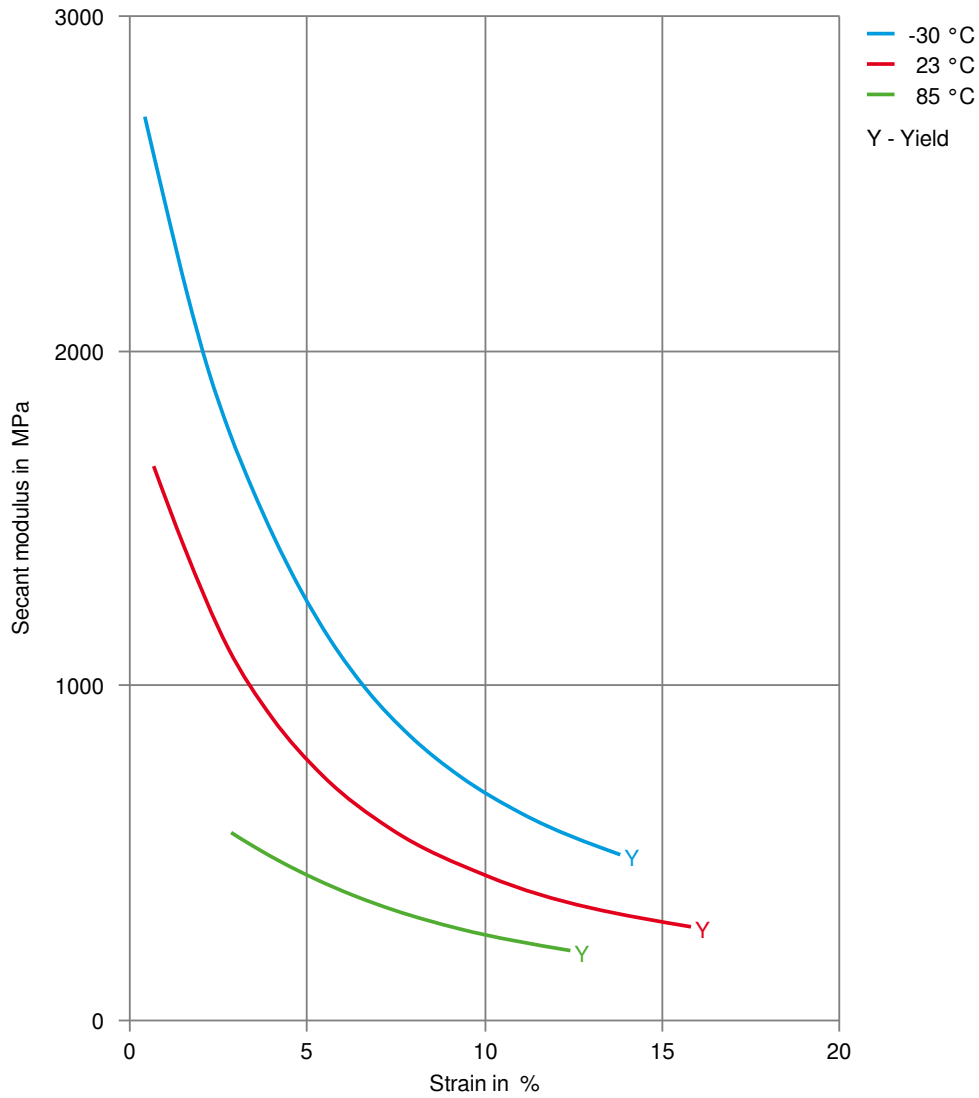
### Stress-strain



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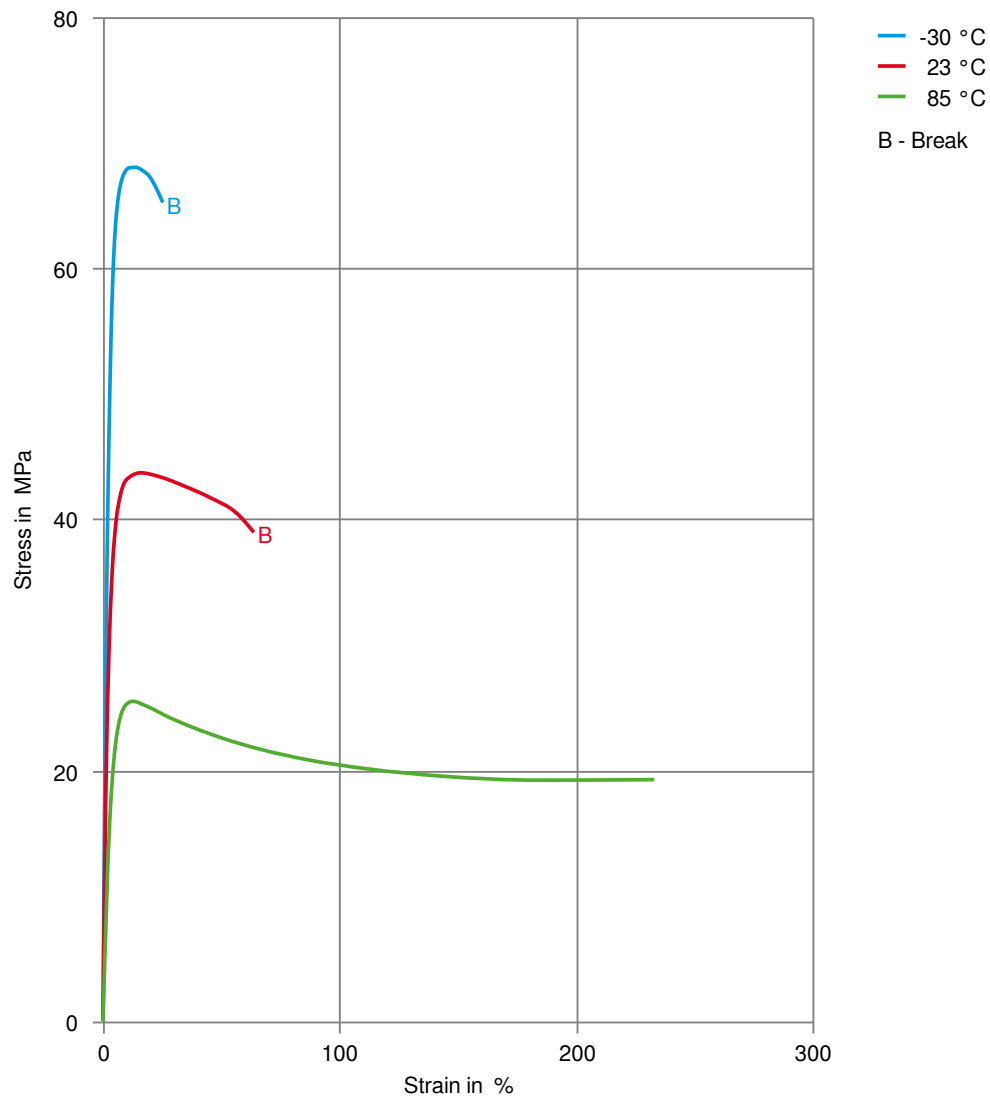
### Secant modulus-strain



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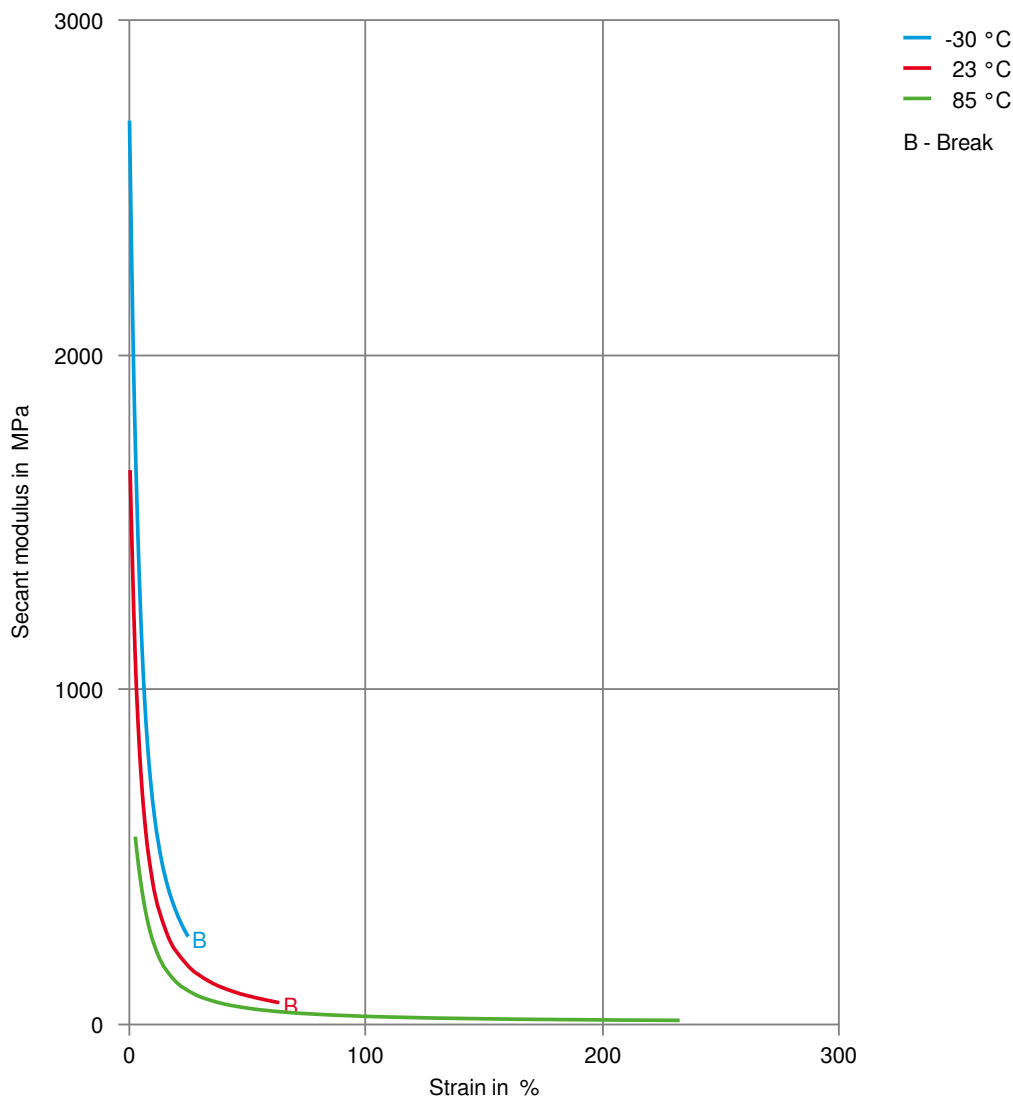
Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min



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