

# HOSTAFORM® S 9364 XAP®2 ECO-B

Impact modified, improved modulus and weld line, low emission

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 such as Hostaform® S 9362 and S 9364, and also exhibits exceptional low emission performance meeting or exceeding the requirements of many automotive markets. Chemical abbreviation according to ISO 1043-1: POM-HI

ECO-B: Hostaform ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

## Rheological properties

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

## Typical mechanical properties

|                                       |                      |              |
|---------------------------------------|----------------------|--------------|
| Tensile Modulus                       | 1650 MPa             | ISO 527-1/-2 |
| Yield stress, 50mm/min                | 43 MPa               | ISO 527-1/-2 |
| Yield strain, 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          | NB kJ/m <sup>2</sup> | ISO 179/1eU  |
| Charpy impact strength, -30°C         | NB 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 kJ/m <sup>2</sup> | ISO 180/1A   |

## Thermal properties

|                                             |           |                |
|---------------------------------------------|-----------|----------------|
| Melting temperature, 10°C/min               | 166 °C    | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa     | 75 °C     | ISO 75-1/-2    |
| Temp. of deflection under load, 0.45 MPa    | 140 °C    | ISO 75-1/-2    |
| Vicat softening temperature, 50°C/h, 50N    | 122 °C    | ISO 306        |
| Coeff. of linear therm. expansion, parallel | 120 E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal   | 110 E-6/K | ISO 11359-1/-2 |

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

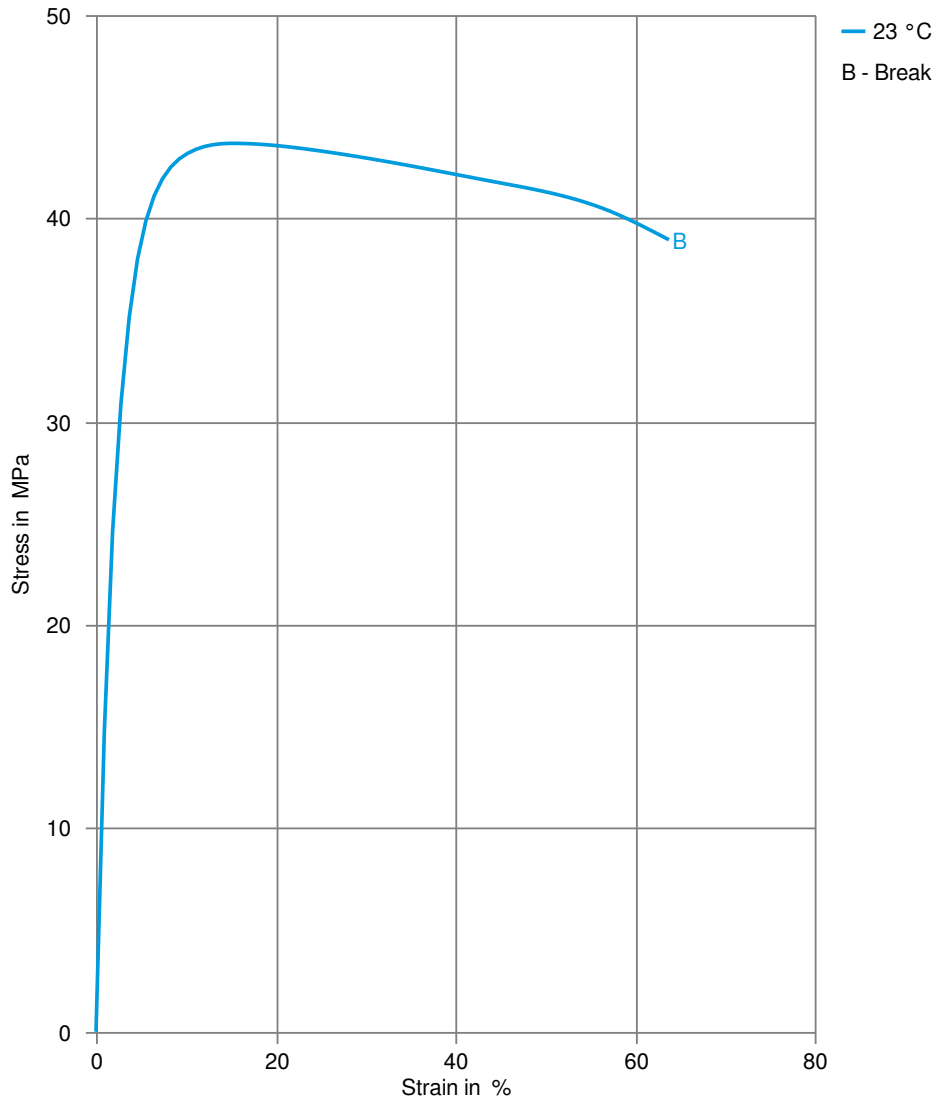
## Characteristics

|           |                         |
|-----------|-------------------------|
| Additives | Release agent, Biobased |
|-----------|-------------------------|



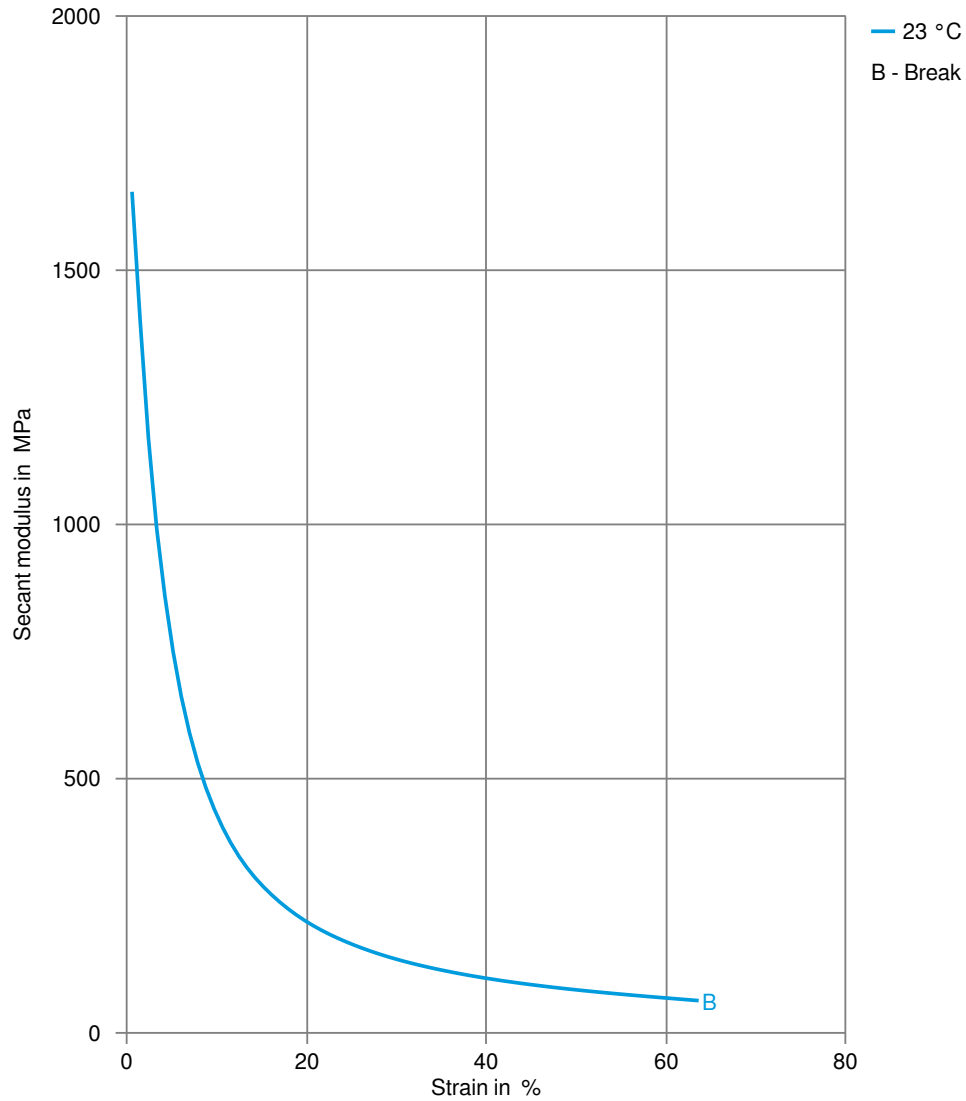
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## Stress-strain



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## Secant modulus-strain



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## Processing Texts

### Pre-drying

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

