

HOSTAFORM® S 9364 XAP®2 ECO-B

HOSTAFORM®

Hostaform® acetal copolymer grade S 9364 XAP®2 ECO-B is a highly impact modified grade for demanding applications. Hostaform® S 9364 XAP®2 ECO-B 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.

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.

Product information

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

Rheological properties

Melt volume-flow rate	4 cm ³ /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 ²	ISO 179/1eU
Charpy impact strength, -30°C	N kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	21 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	11 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	20 kJ/m ²	ISO 180/1A
Izod notched impact strength, -40°C	10.0 kJ/m ²	ISO 180/1A
Hardness, Rockwell, M-scale	48	ISO 2039-2
Poisson's ratio	0.42 ^[C]	

[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

HOSTAFORM® S 9364 XAP®2 ECO-B

HOSTAFORM®

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 ³	ISO 1183

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
Sustainability	Bio-Content

Additional information

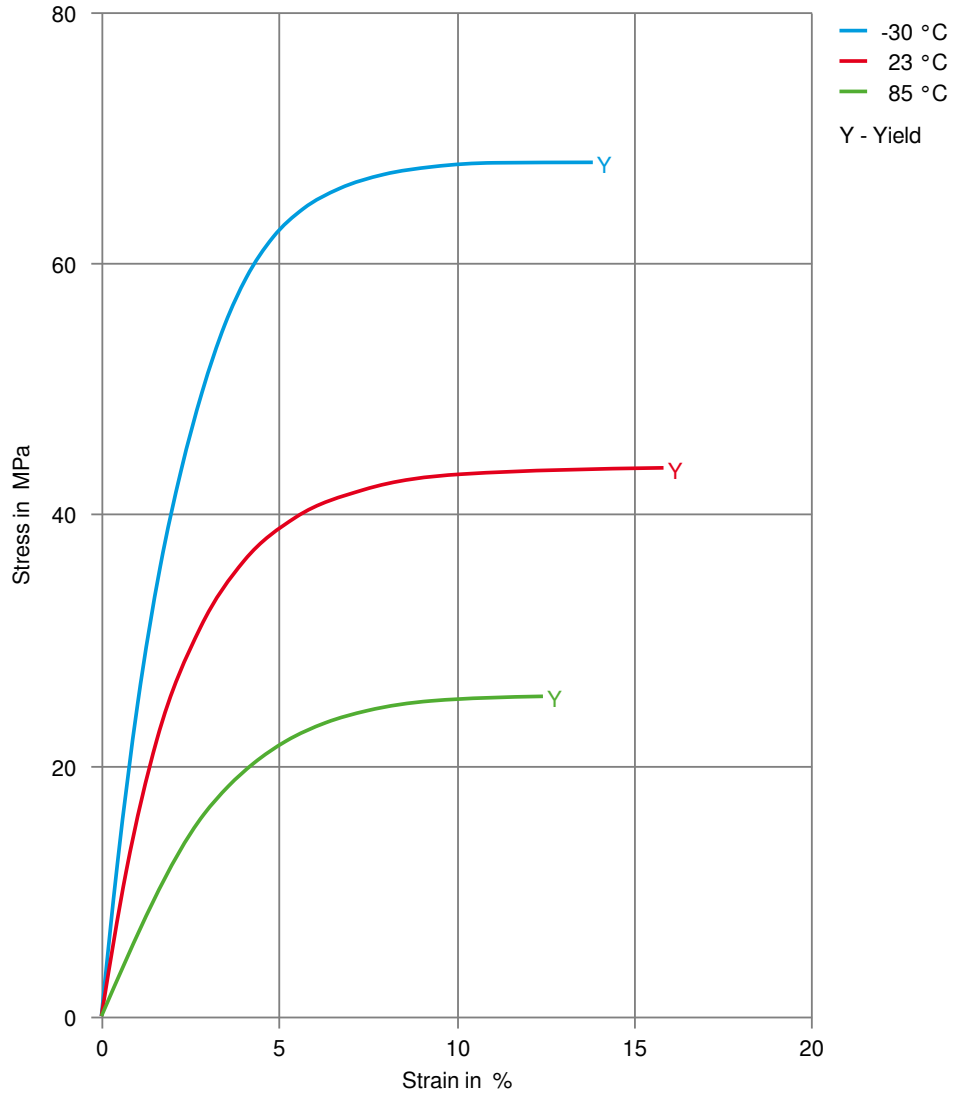
Processing Notes

Pre-Drying

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

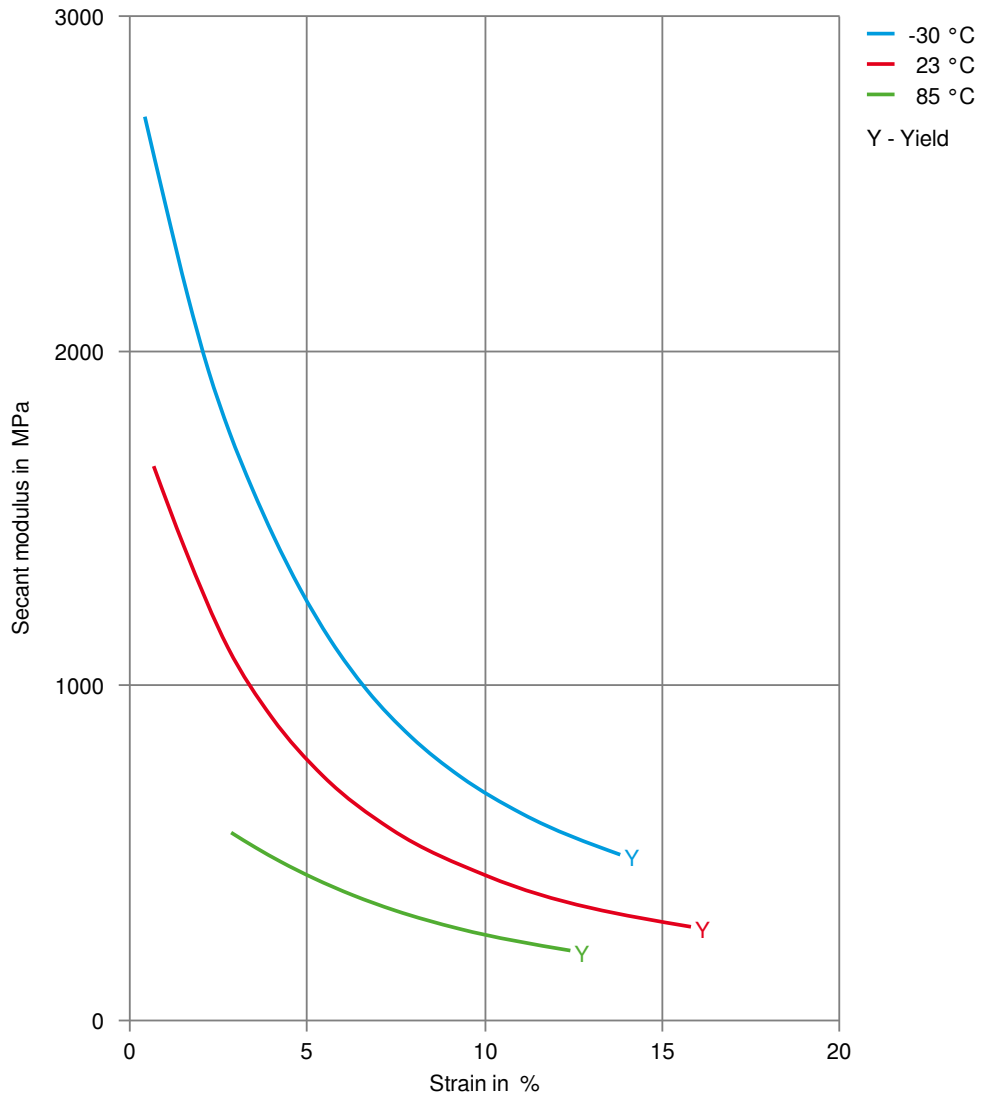
HOSTAFORM® S 9364 XAP®2 ECO-B HOSTAFORM®

Stress-strain
(measured on HOSTAFORM® S 9364 XAP®2)



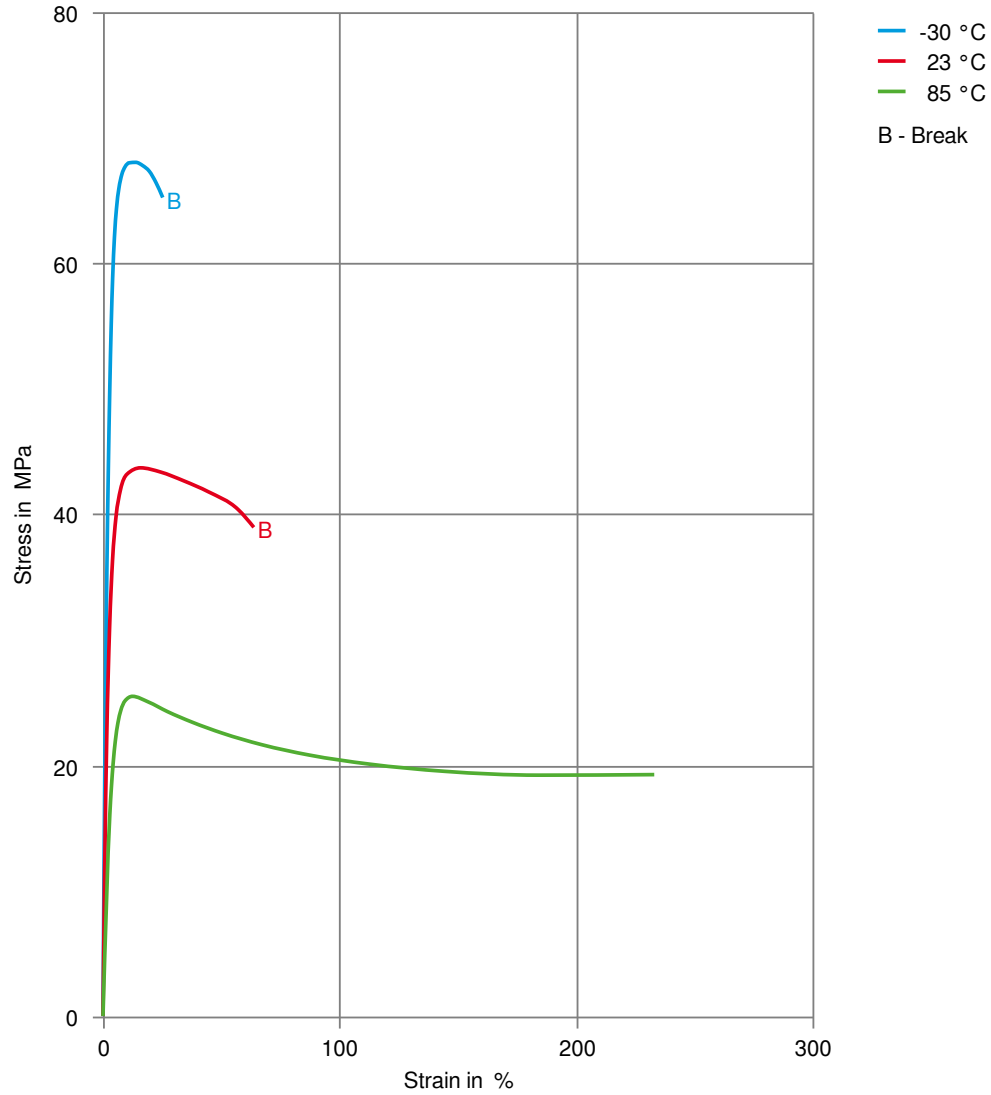
HOSTAFORM® S 9364 XAP®2 ECO-B HOSTAFORM®

Secant modulus-strain
(measured on HOSTAFORM® S 9364 XAP®2)



HOSTAFORM® S 9364 XAP®2 ECO-B HOSTAFORM®

Stress-strain, 50mm/min
(measured on HOSTAFORM® S 9364 XAP®2)



HOSTAFORM® S 9364 XAP®2 ECO-B HOSTAFORM®

Secant modulus-strain, 50mm/min
(measured on HOSTAFORM® S 9364 XAP®2)

