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HOSTAFORM® S 9363 XAP®2 ECO-B

HOSTAFORM®

Hostaform® acetal copolymer grade S 9363 XAP®2 is an impact modified grade for demanding applications. Hostaform® S 9363 XAP®2 provides good impact strength while improving modulus and weld line strength over standard impact modified grades such as Hostaform® S 9063, 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.

Product information

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

Rheological properties

Melt volume-flow rate	5.5	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2000	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	50	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	12	%	ISO 527-1/-2
Flexural modulus	2000	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	13	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m^2	ISO 179/1eA
Izod notched impact strength, 23°C	13	kJ/m^2	ISO 180/1A
Izod notched impact strength, -40°C	8.0	kJ/m^2	ISO 180/1A
Hardness, Rockwell, M-scale	65		ISO 2039-2
Poisson's ratio	0.4[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	84	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	148	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	110	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	110	E-6/K	ISO 11359-1/-2

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Physical/Other properties

Humidity absorption, 2mm	0.25	%	Sim. to ISO 62
Water absorption, 2mm	0.8	%	Sim. to ISO 62
Density	1380	kg/m³	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.

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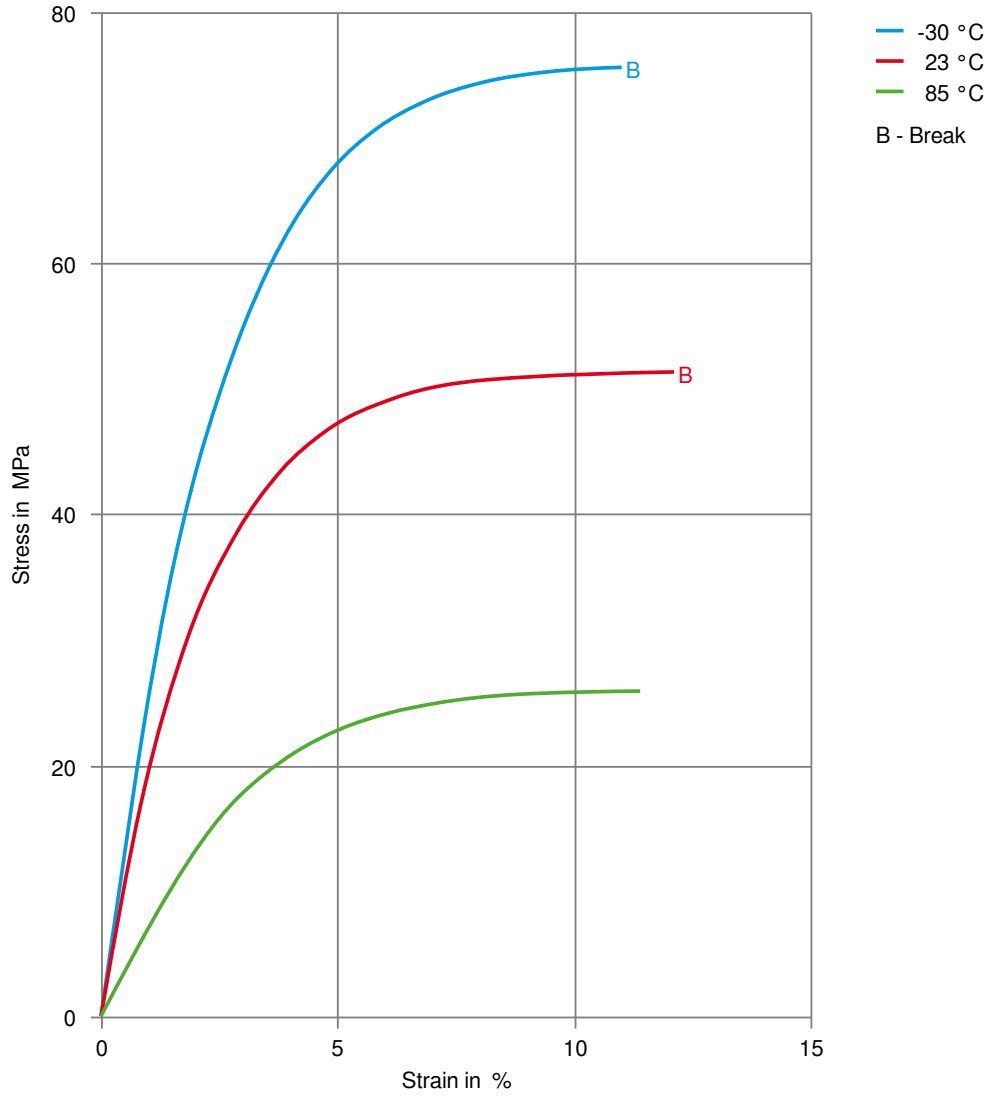
Stress-strain
(measured on HOSTAFORM® S 9363 XAP®2)



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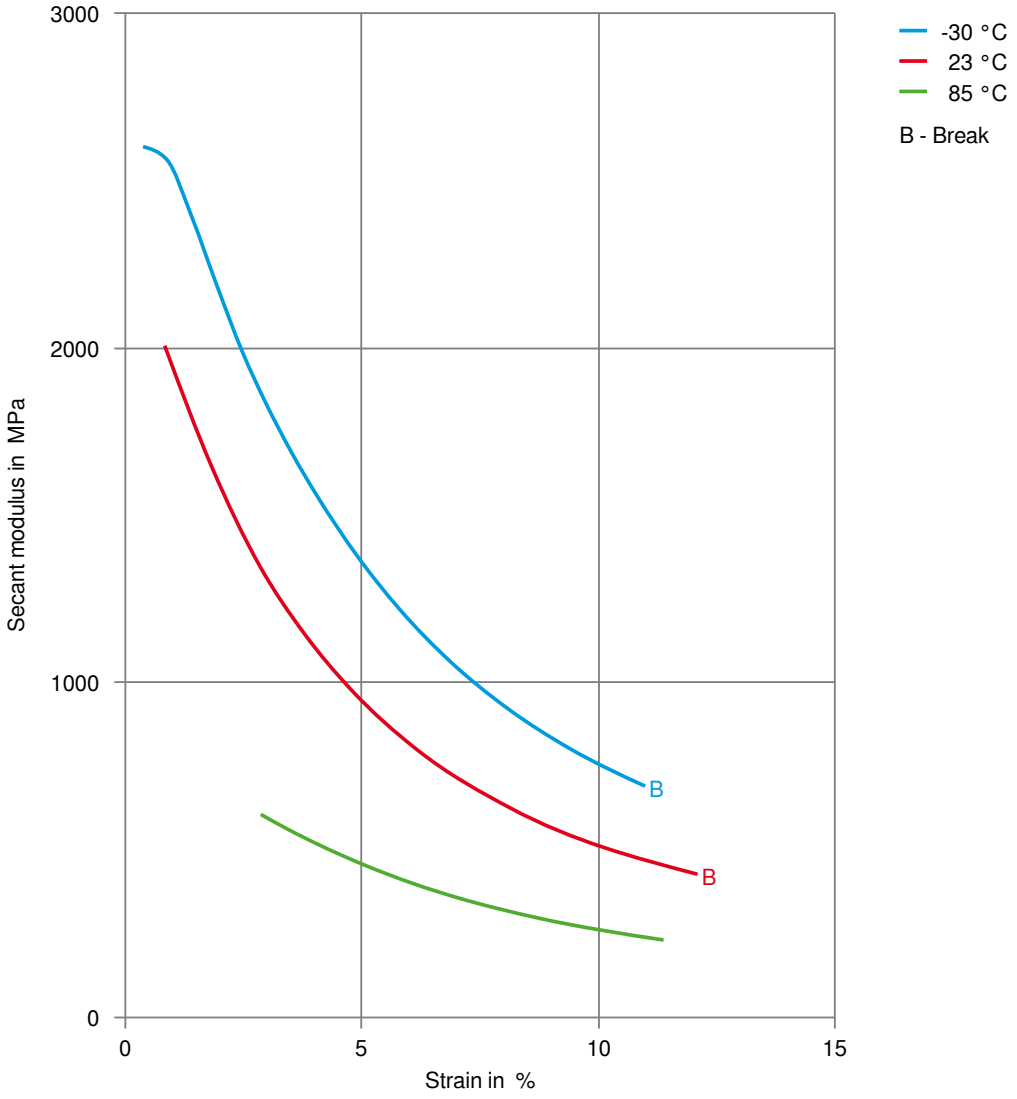
Secant modulus-strain
(measured on HOSTAFORM® S 9363 XAP®2)



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HOSTAFORM® S 9363 XAP®2 ECO-B
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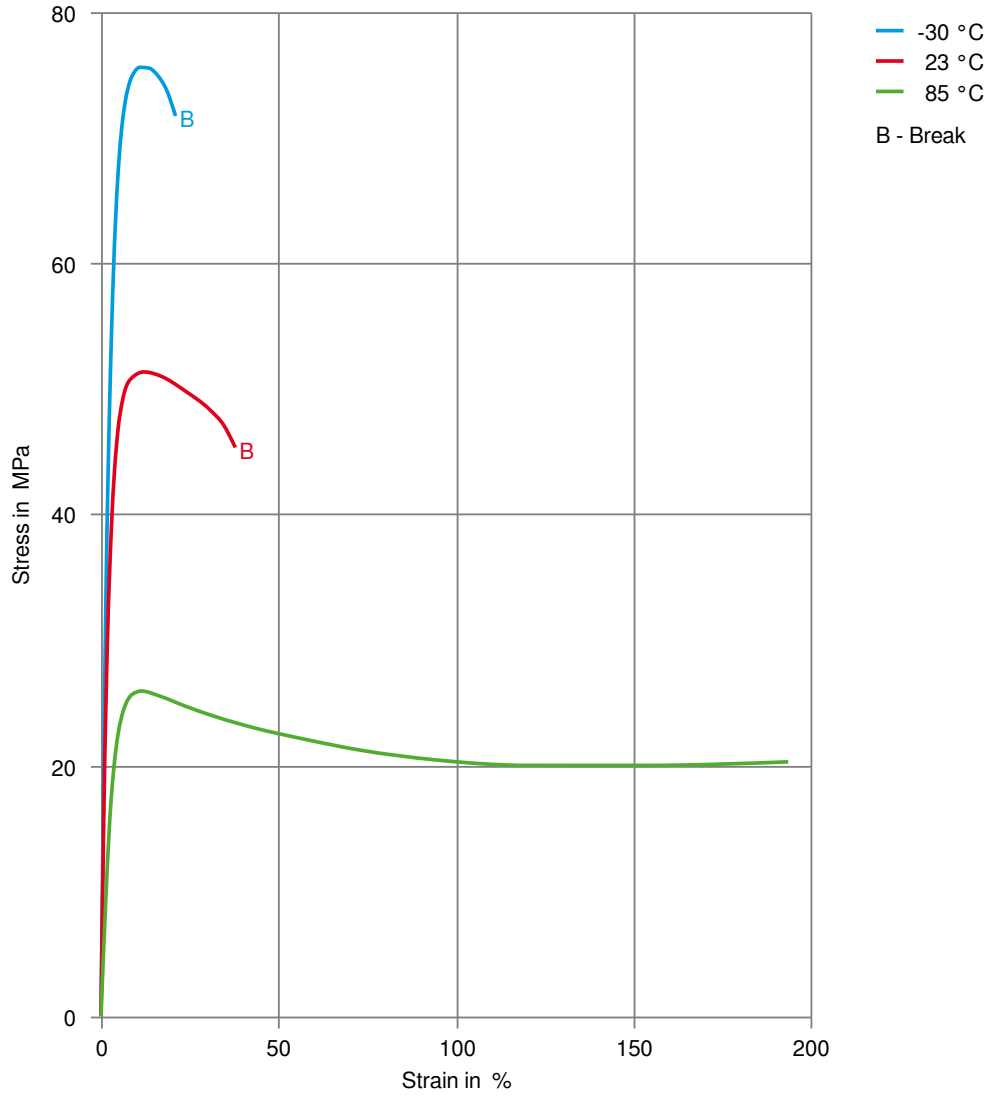
Stress-strain, 50mm/min



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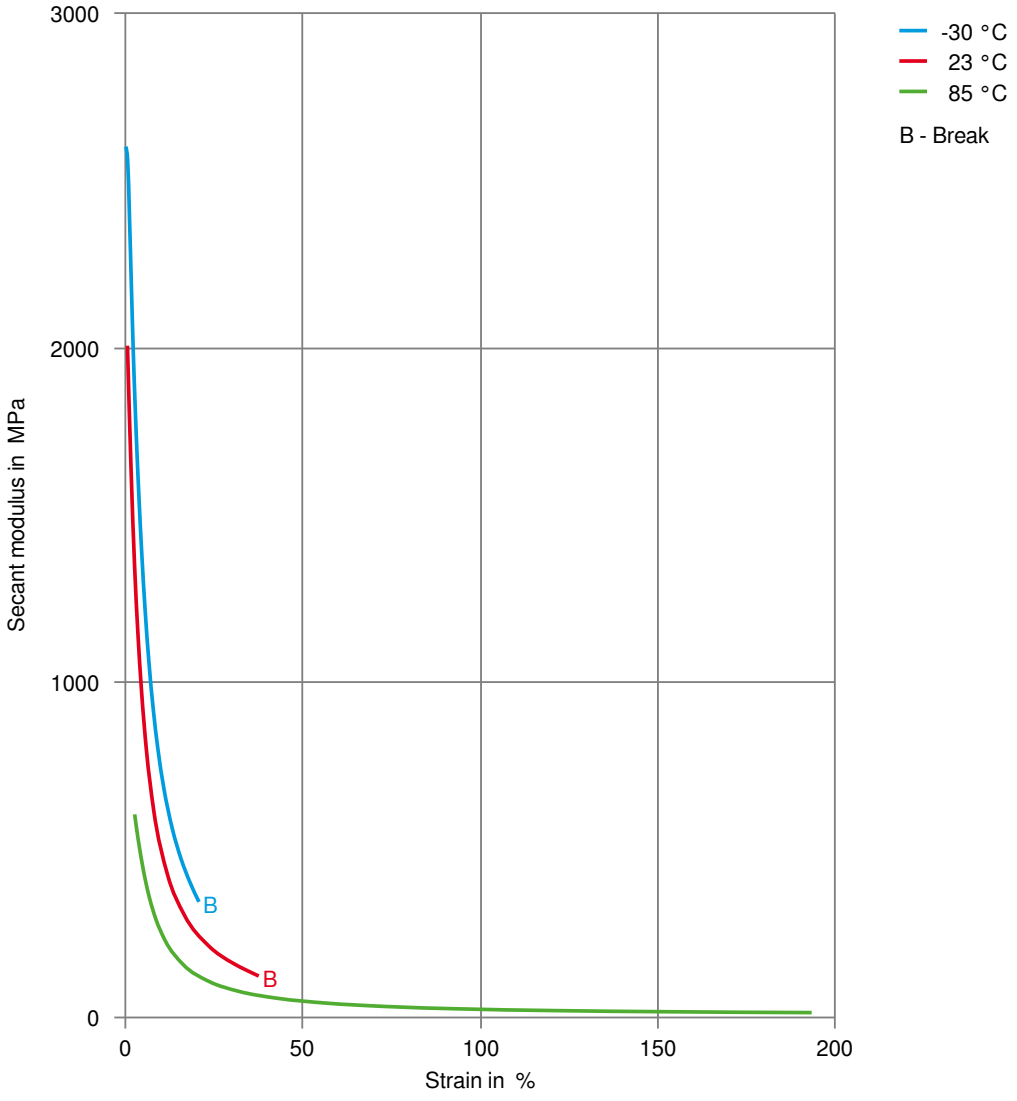
Secant modulus-strain, 50mm/min



Revised: 2024-12-03 Source: Celanese Materials Database