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	$cm^3/10min$	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
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^2	ISO 179/1eU
Charpy impact strength, -30°C	NB	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	kJ/m^2	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^3	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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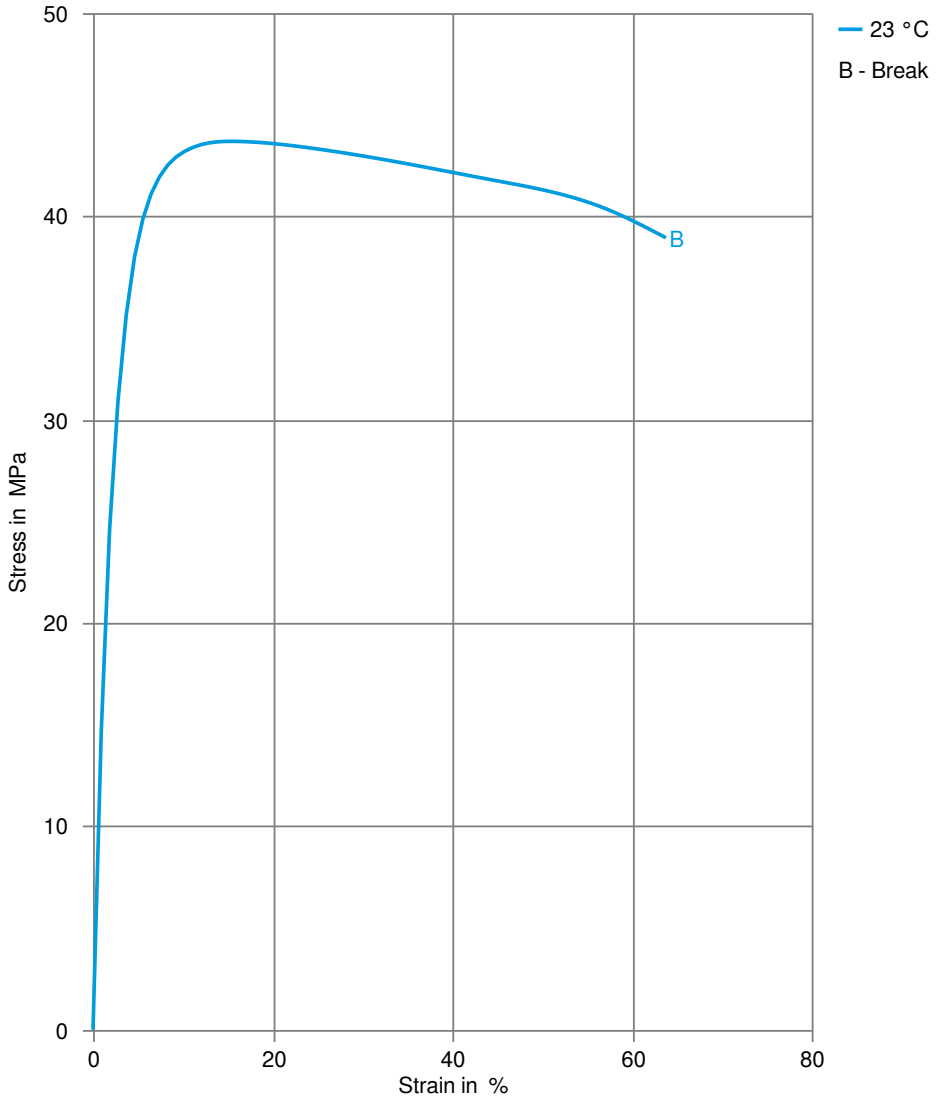
Stress-strain



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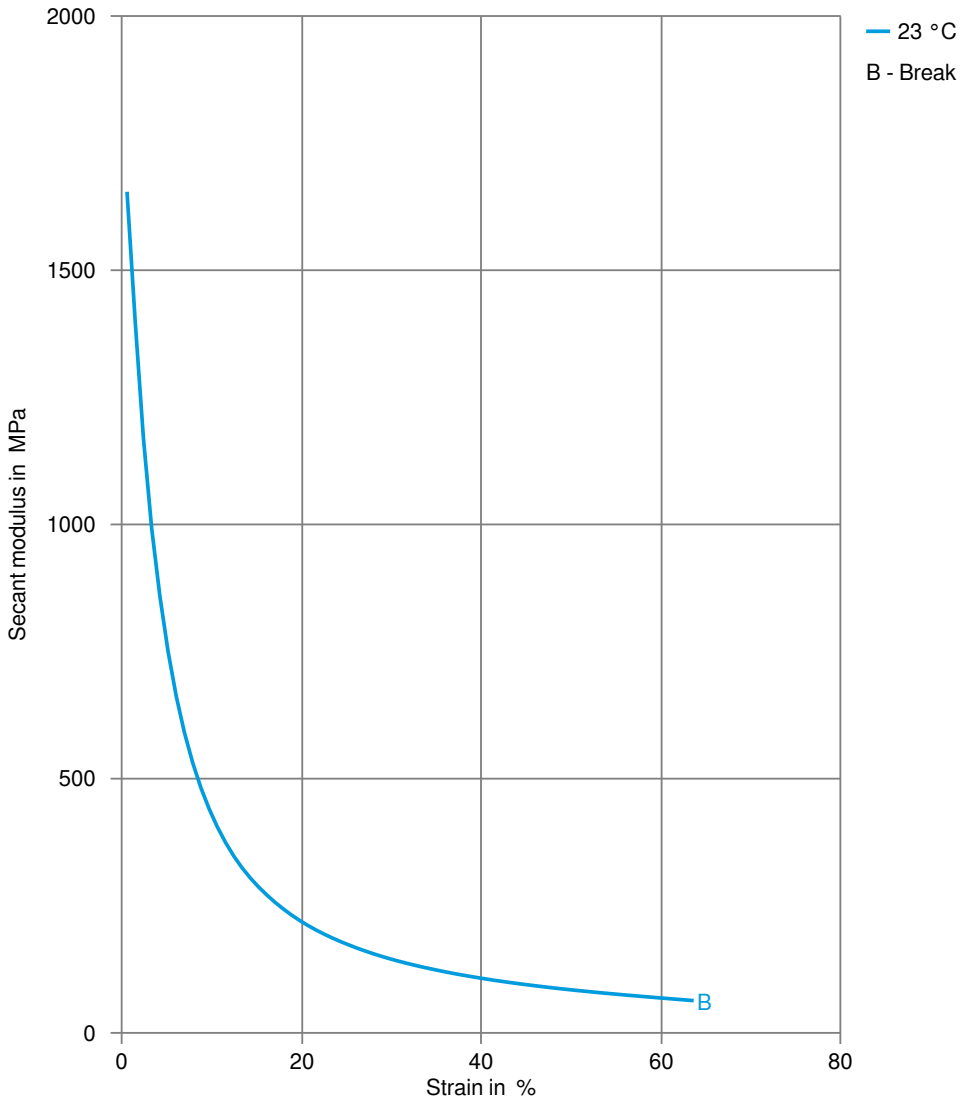
Secant modulus-strain



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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.

Revised: 2023-07-19 Source: Celanese Materials Database