

HOSTAFORM® SXT90Z-01 XAP®

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Hostaform® acetal copolymer grade SXT90Z-01 XAP® is a UV stabilized, impact modified material available in a range of colors for automotive interior applications, while also meeting the typical low emission requirements of the automotive market. Chemical abbreviation according to ISO 1043-1: POM-HI Low emission performance (VDA 275) < 10 ppm

Product information

Resin Identification	(POM+TPU)	ISO 1043
Part Marking Code	>(POM+TPU)<	ISO 11469

Rheological properties

Melt volume-flow rate	7 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	2.2 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1900 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	49 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	12 %	ISO 527-1/-2
Tensile strain at break, 50mm/min	47 ^[PV] %	ISO 527-1/-2
Flexural modulus	1850 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	11 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	10 kJ/m ²	ISO 180/1A
Izod notched impact strength, -40°C	8.0 kJ/m ²	ISO 180/1A
Poisson's ratio	0.41 ^[C]	

[PV]: Preliminary Value

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	138 ^[1] E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	139 ^[1] E-6/K	ISO 11359-1/-2

[1]: Temperature range: -40°C to 100°C

Physical/Other properties

Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1380 kg/m ³	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
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather, Low emissions

Additional information

Processing Notes

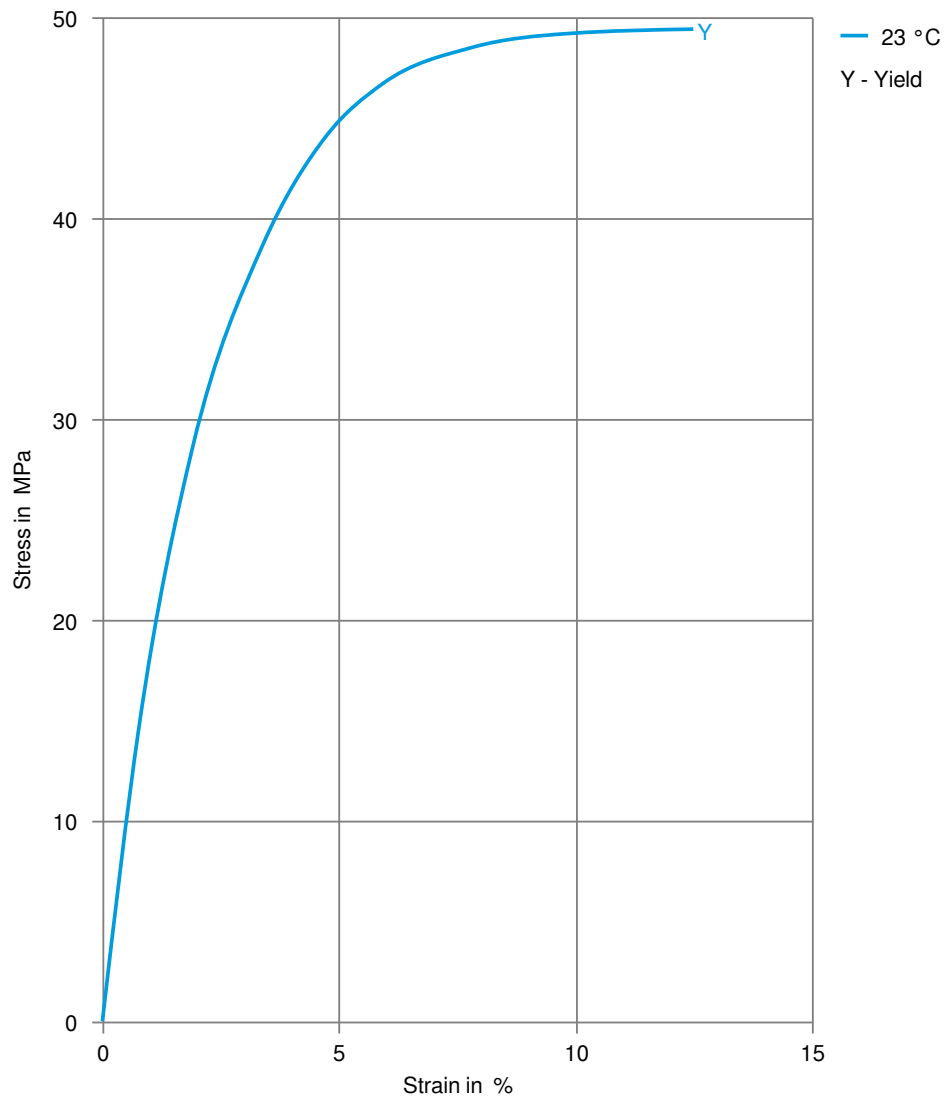
Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying to prevent splay and odor problems.

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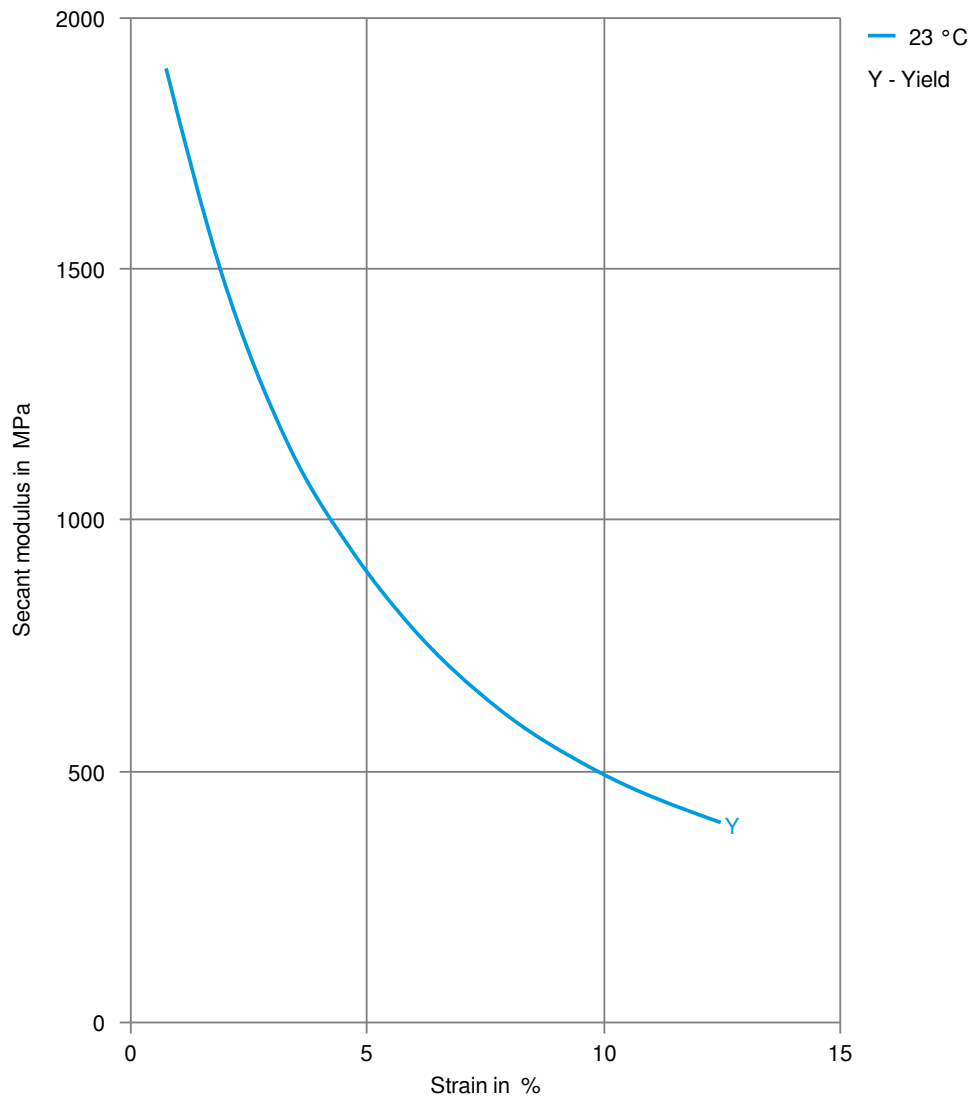
Stress-strain



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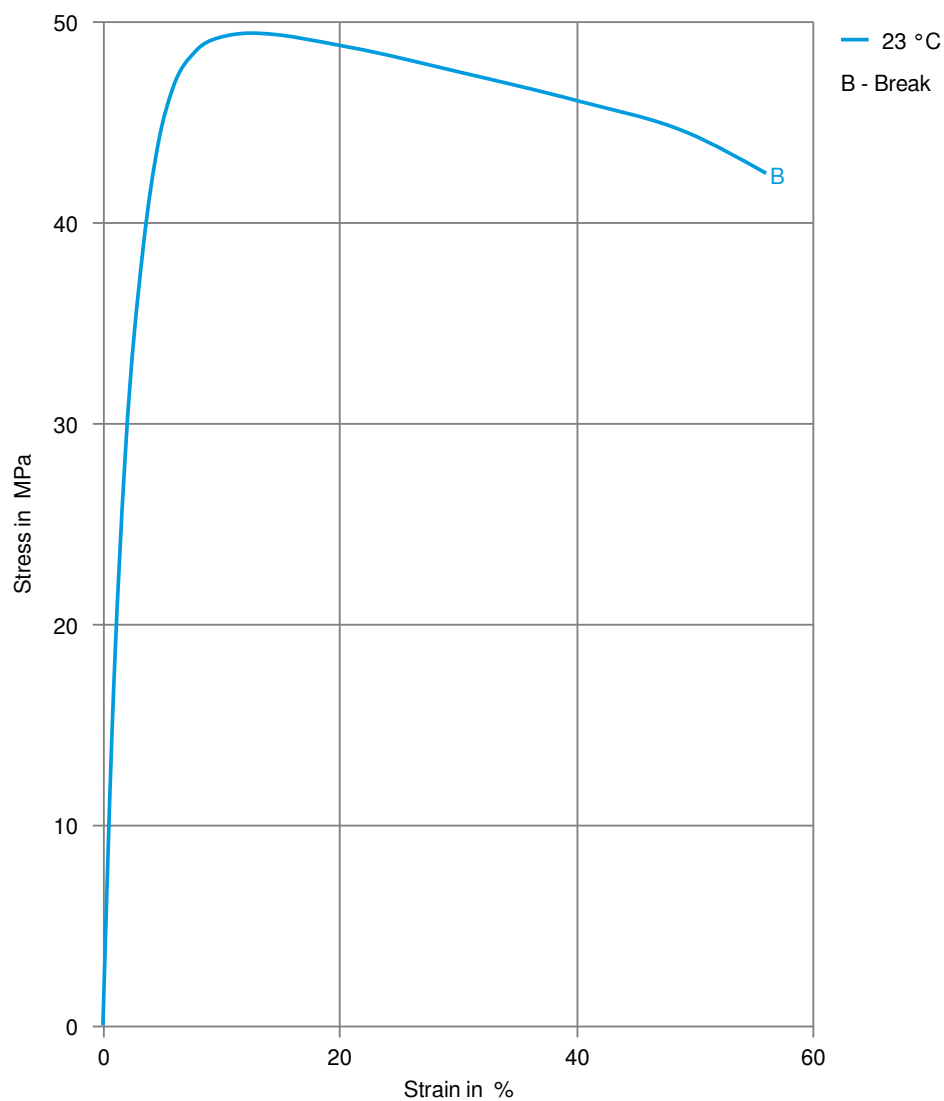
Secant modulus-strain



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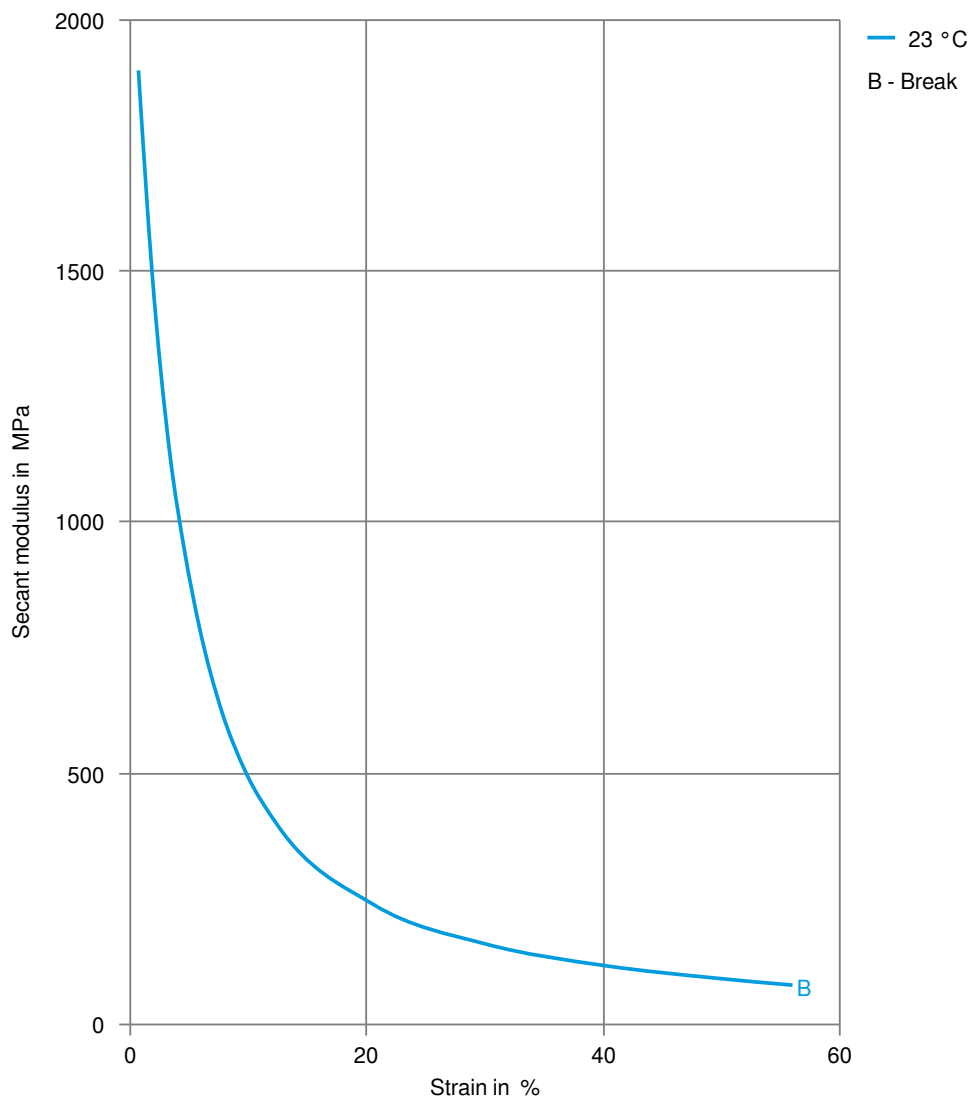
Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min



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Page: 6 of 6

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