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	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	276000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	7100	psi	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	268000	psi	ISO 178
Charpy impact strength, 23°C	N	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	N	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	5.23	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	3.33	$ftlb/in^2$	ISO 179/1eA
Izod notched impact strength, 23°C	4.76	$ftlb/in^2$	ISO 180/1A
Izod notched impact strength, -40°C	3.81	$ftlb/in^2$	ISO 180/1A

[PV]: Preliminary Value

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	0.77[1]	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.772[1]	E-4/°F	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	0.0498	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	374	°F

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Min. melt temperature	356	°F
Max. melt temperature	392	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	149	°F
Min. mold temperature	140	°F
Max. mold temperature	158	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s
Back pressure	290	psi

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, U.V. stabilized or stable to weather, Low emissions

Additional information

Processing Notes

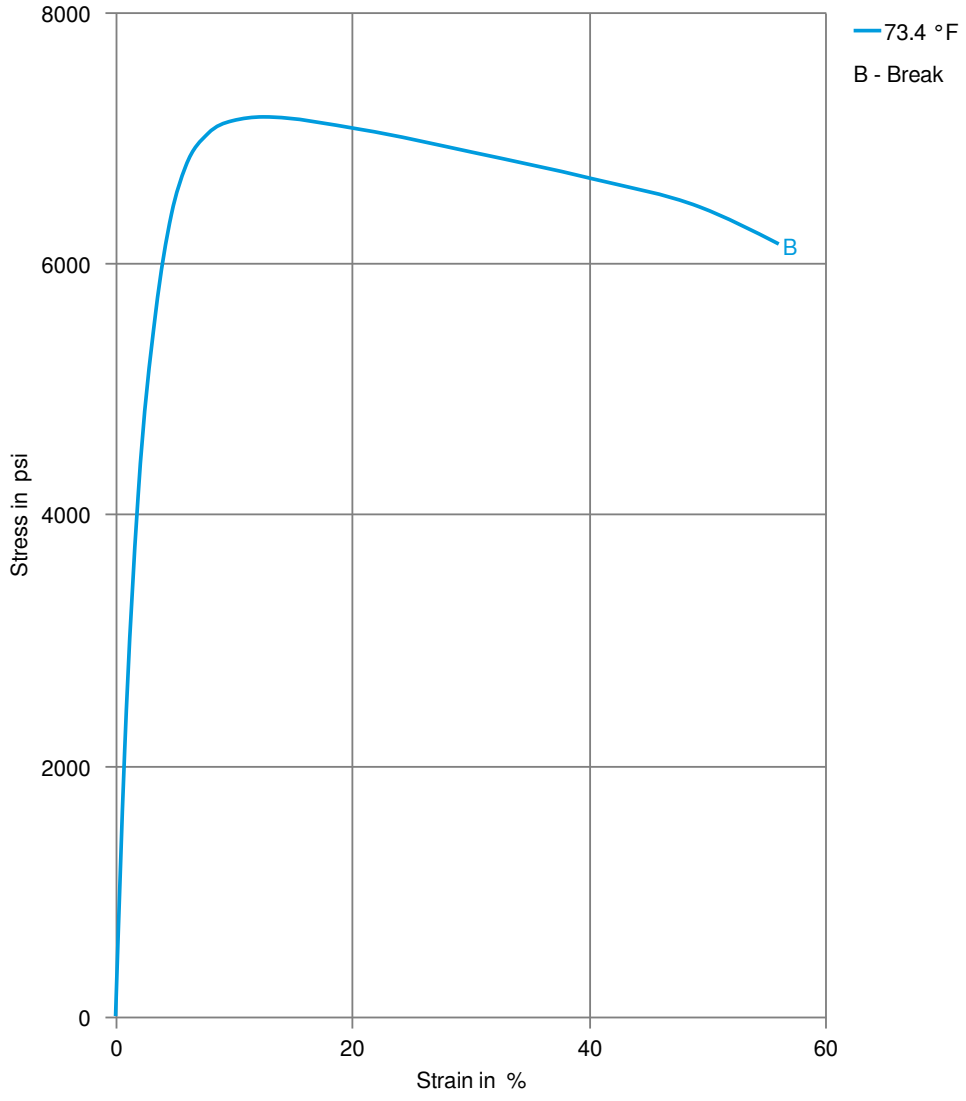
Pre-Drying

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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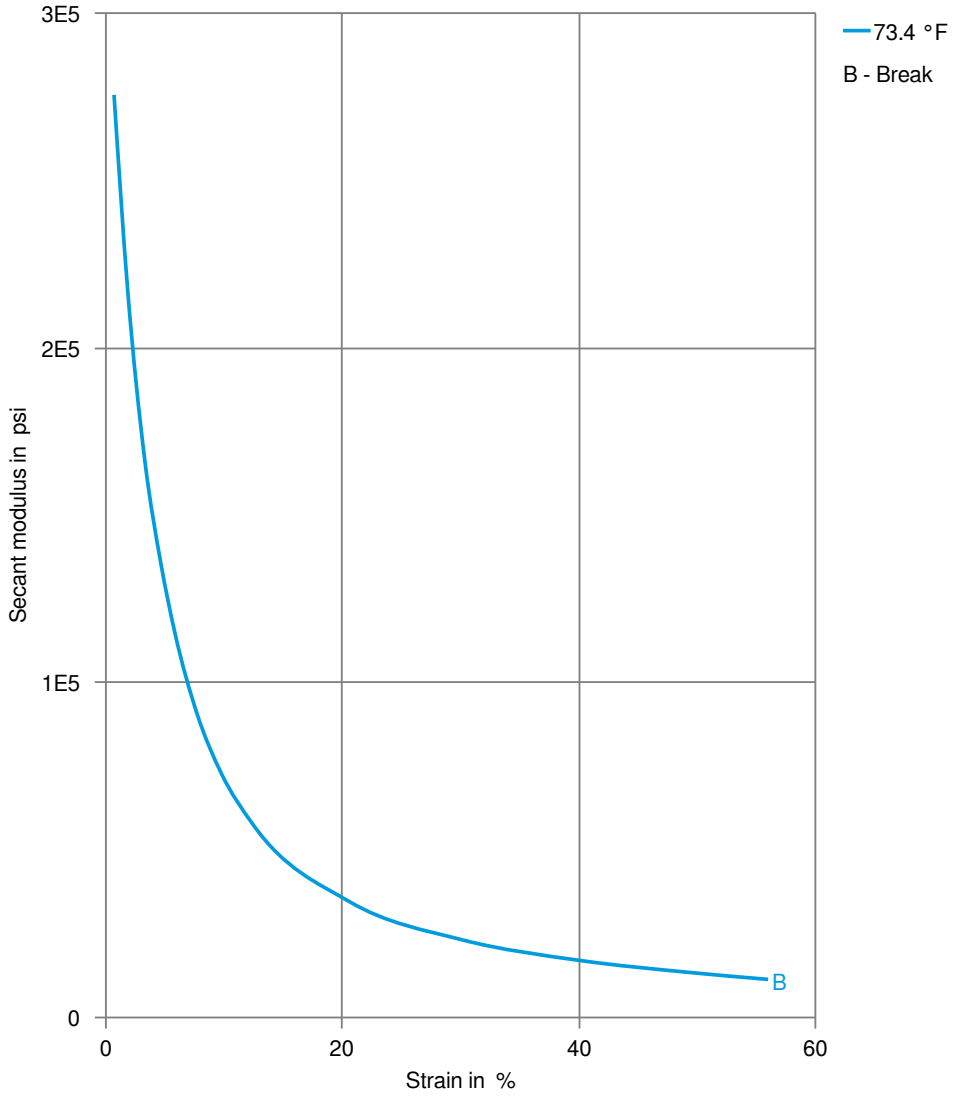
Stress-strain



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Secant modulus-strain



Revised: 2025-07-21 Source: Celanese Materials Database

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