HOSTAFORM® S 9364 XAP®2

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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.
Hostaform® S 9364 XAP®2 exhibits exceptional low emission performance meeting or exceeding the requirements of many automotive markets. Emission according to VDA275 < 5 mg/kg. Chemical abbreviation according to ISO 1043-1: POM-HI

Product information

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

Rheological properties

Melt volume-flow rate	4	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	1.6	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	239000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	6200	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	16	%	ISO 527-1/-2
Flexural modulus	225000	psi	ISO 178
Flexural stress at 3.5%	6090	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	9.99	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	5.23	$ftlb/in^2$	ISO 179/1eA
Izod notched impact strength, 23°C	9.51	$ftlb/in^2$	ISO 180/1A
Izod notched impact strength, -40°C	4.76	$ftlb/in^2$	ISO 180/1A
Hardness, Rockwell, M-scale	48		ISO 2039-2

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	167	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	284	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.67	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.611	E-4/°F	ISO 11359-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	1.73	in/min	ISO 3795 (FMVSS 302)

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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	0.0491	lb/in³	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
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)	2h²-3	s
Back pressure	290	psi

Extrusion

Drying Temperature	194 - 230	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	365	°F
Melt Temperature Range	338 - 392	°F

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
BAIC	Q-BJEV 01.59	
Ford	WSK-M4D618-A2	
Li Auto	Q/LiA5310020	2021 (V2)
Mercedes-Benz	DBL5404	BQF
Mercedes-Benz	DBL5410	
Renault	No Spec, Special Part Approval, See Your CE Account Manager.	
SAIC Motor	SMTC 5 310 020	
VW Group	TL 522 77	
VW Group	VW 50180	

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Characteristics

Processing	Injection Molding, Extrusion
Additives	Release agent
Special characteristics	High impact or impact modified, Low emissions

Additional information

Processing Notes

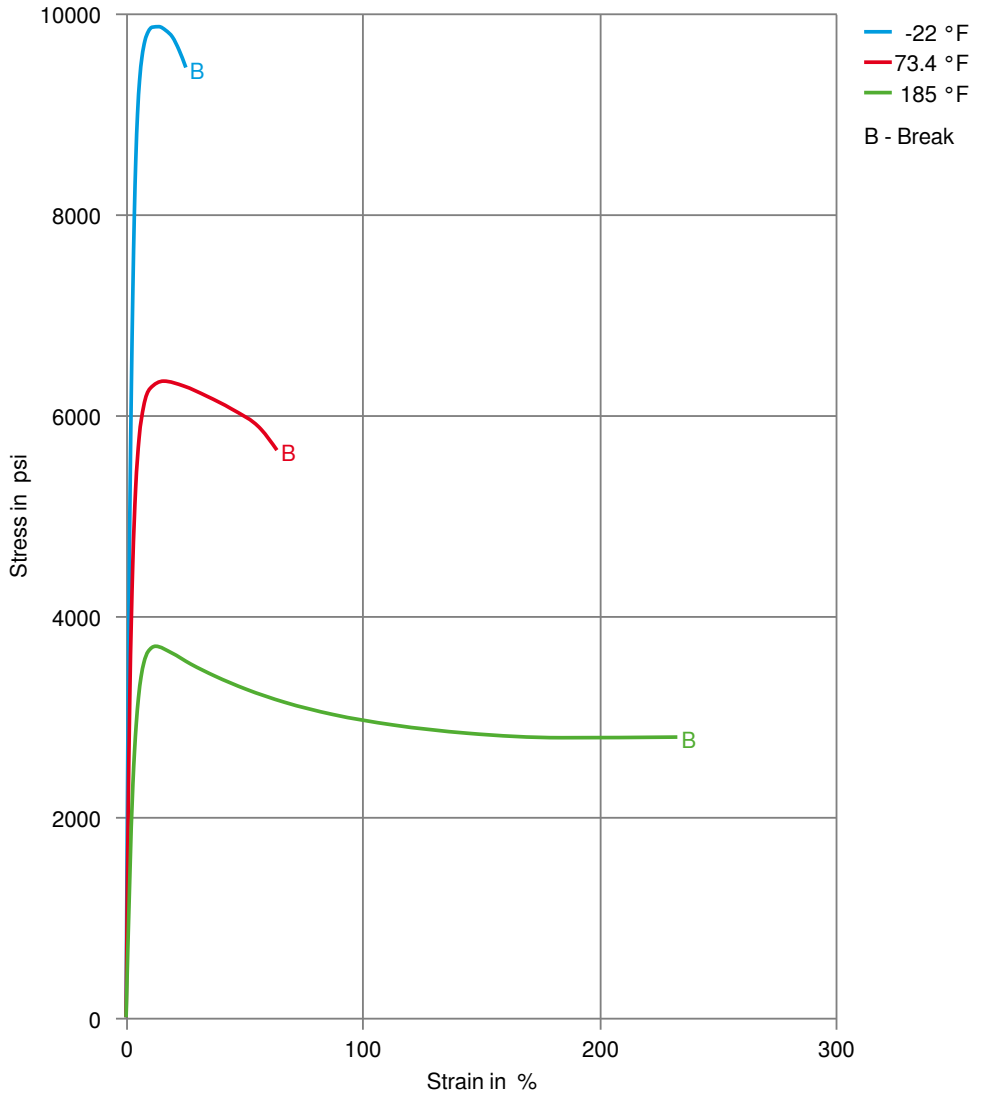
Pre-Drying

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

Stress-strain

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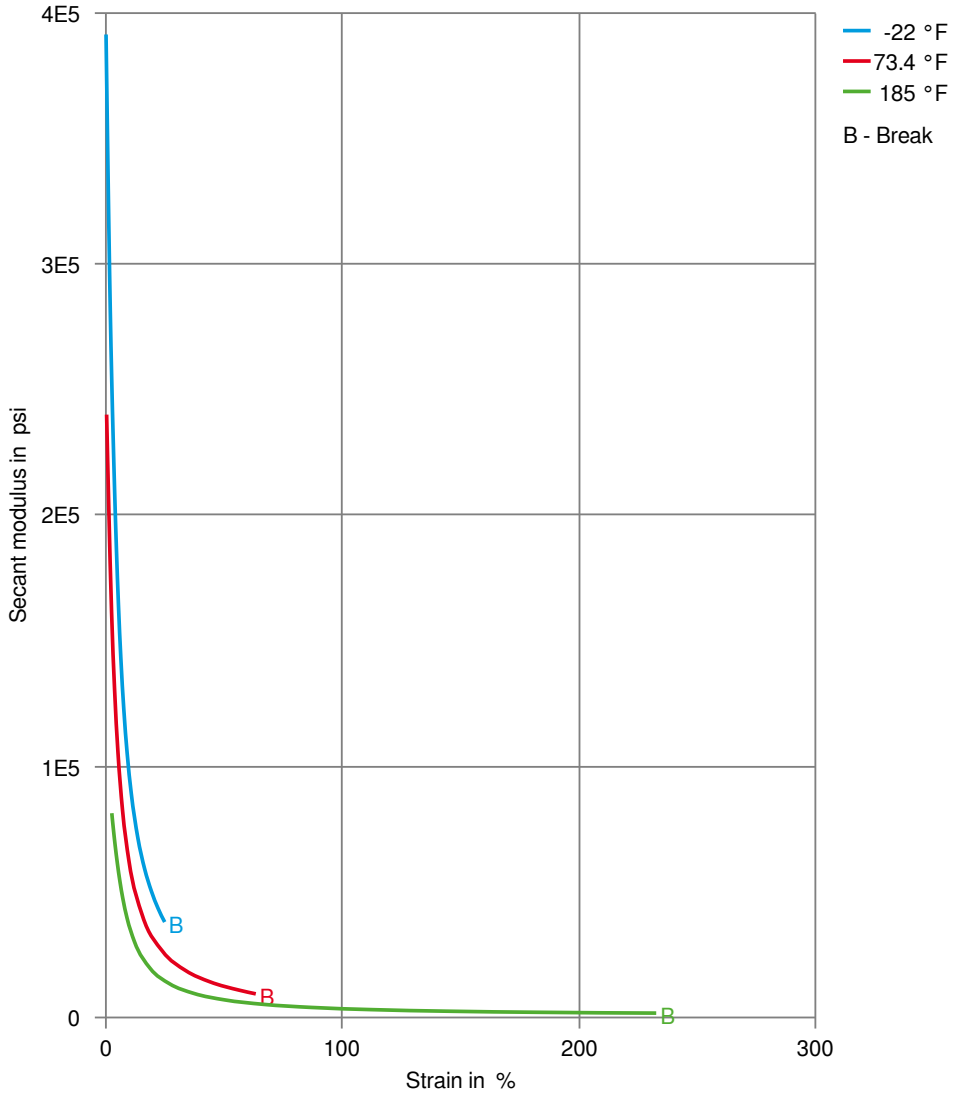
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Secant modulus-strain



Revised: 2026-08-12 Source: Celanese Materials Database

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