HOSTAFORM® S 9364 XAP®2 ECO-C 772

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Hostaform® acetal copolymer grade S 9364 XAP®2 ECO-C 772 is a highly impact modified grade for demanding applications. Hostaform® S 9364 XAP®2 ECO-C 772 provides a significant improvement in impact strength and flexibility over standard impact modified grades. Hostaform® S 9364 XAP®2 ECO-C 772 exhibits exceptional low emission performance meeting or exceeding the requirements of many automotive markets. Emission according to VDA275 < 5 mg/kg.

Hostaform® S 9364 XAP®2 ECO-C 772 incorporates a minimum of 70% circular content derived from captured carbon dioxide emissions by weight in the finished product through mass balance allocation. The product is a drop-in replacement to the standard grade with the same performance and processing properties and contributes to the displacement of virgin fossil fuel resources. The feedstock utilizing captured carbon dioxide emissions are ISCC CFC certified as low carbon intensity methanol.

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

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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

Characteristics

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

Additional information

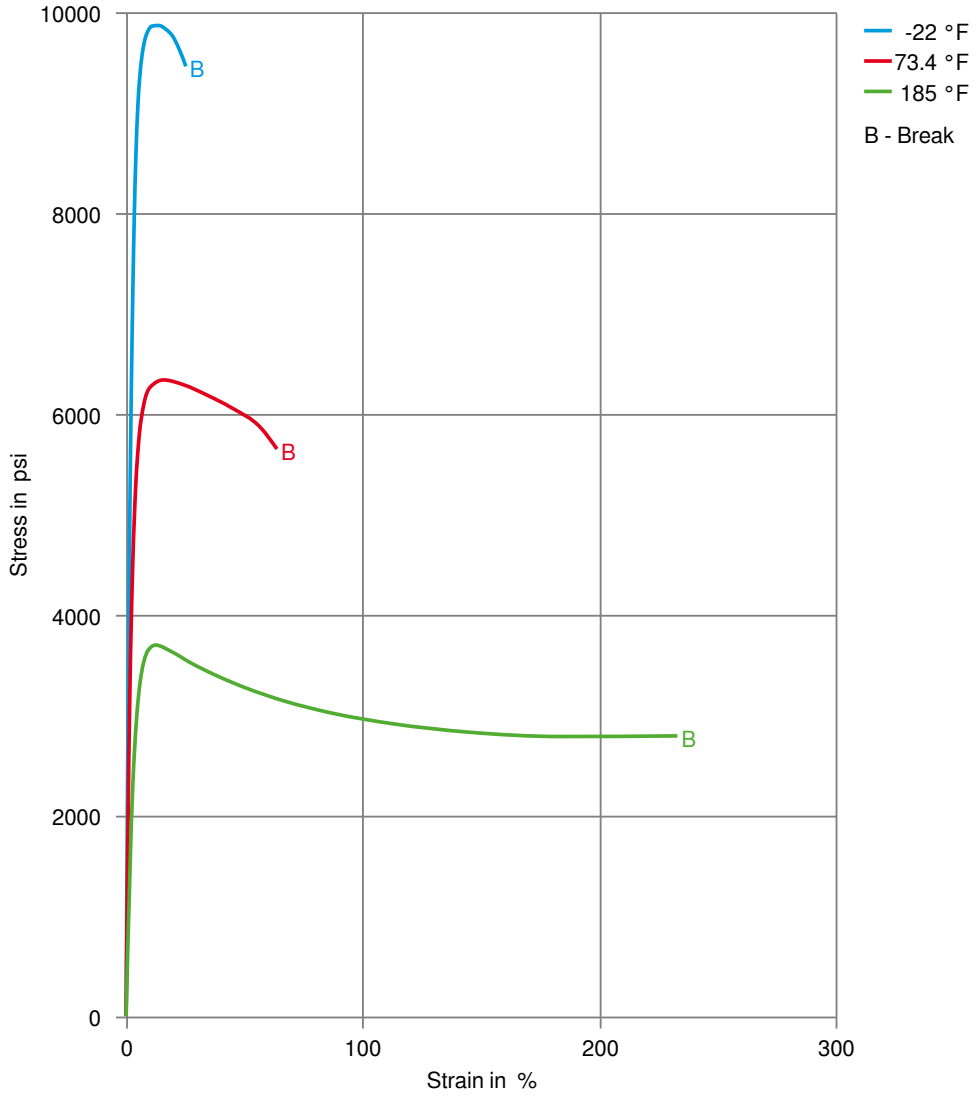
Processing Notes

Pre-Drying

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

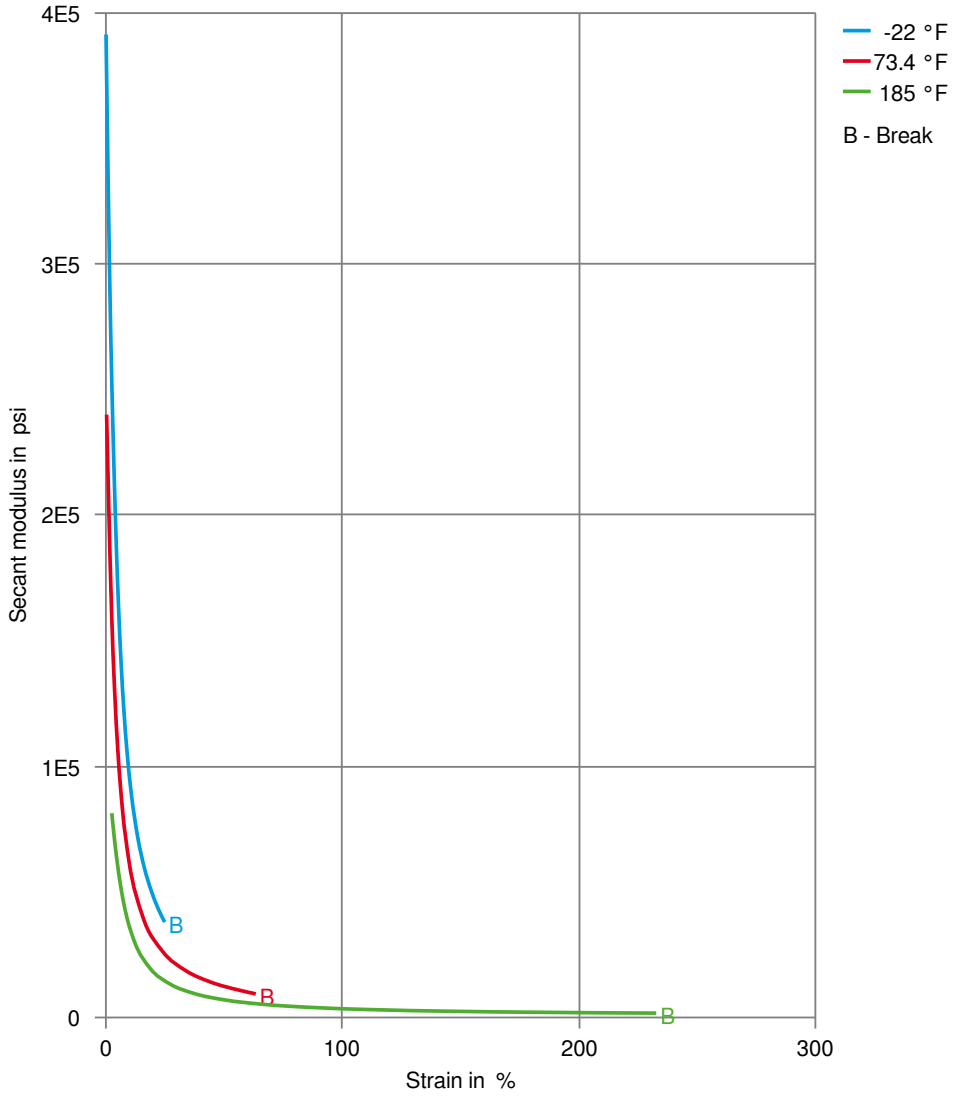
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Stress-strain



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Secant modulus-strain



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