HOSTAFORM® S 9243 XAP®2 ECO-C 772

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POM copolymer, modified Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than unmodified acetal copolymer. Reduced emission grade, Emission according to VDA 275 < 5 mg/kg good weld strength. Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness).

Hostaform® POM S 9243 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	1.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	283000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	6400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	40	%	ISO 527-1/-2
Flexural modulus	268000	psi	ISO 178
Tensile creep modulus, 1h	247000	psi	ISO 899-1
Tensile creep modulus, 1000h	138000	psi	ISO 899-1
Charpy impact strength, 23°C	N	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	95.1[P]	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	7.14	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	4.28	$ftlb/in^2$	ISO 179/1eA
Poisson's ratio	0.45		

[P]: Partial Break

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	167	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.67	E-4/°F	ISO 11359-1/-2

Electrical properties

Relative permittivity, 100Hz	3.8		IEC 62631-2-1
Relative permittivity, 1MHz	3.8		IEC 62631-2-1
Dissipation factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	60	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm.m	IEC 62631-3-1

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Surface resistivity	1E13	Ohm	IEC 62631-3-2
Comparative tracking index	600		IEC 60112

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	1	%	Sim. to ISO 62
Density	0.048	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	383	°F
Min. melt temperature	374	°F
Max. melt temperature	392	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°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

Characteristics

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

Additional information

Processing Notes

Pre-Drying

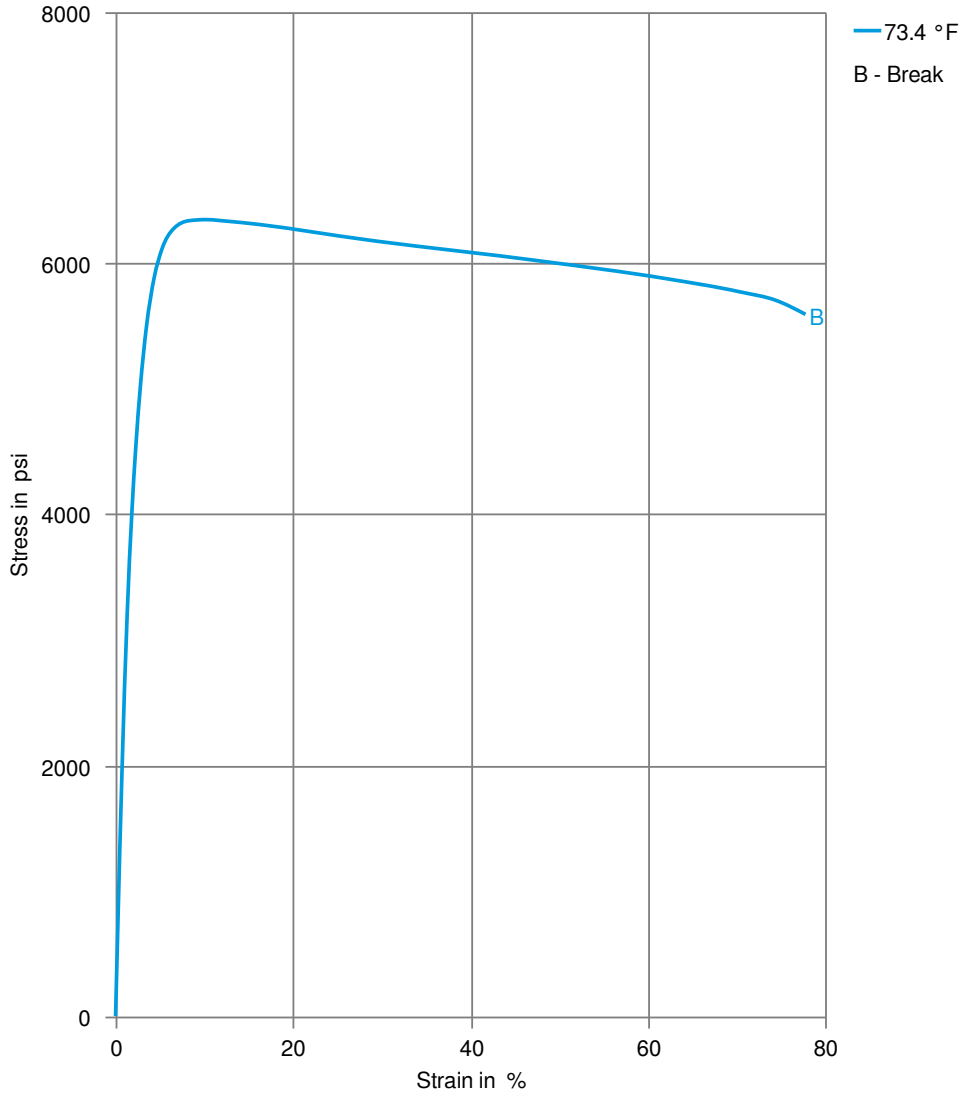
It is normally not necessary to dry HOSTAFORM. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this purpose if the granul

Storage

The product can then be stored in standard conditions until processed.

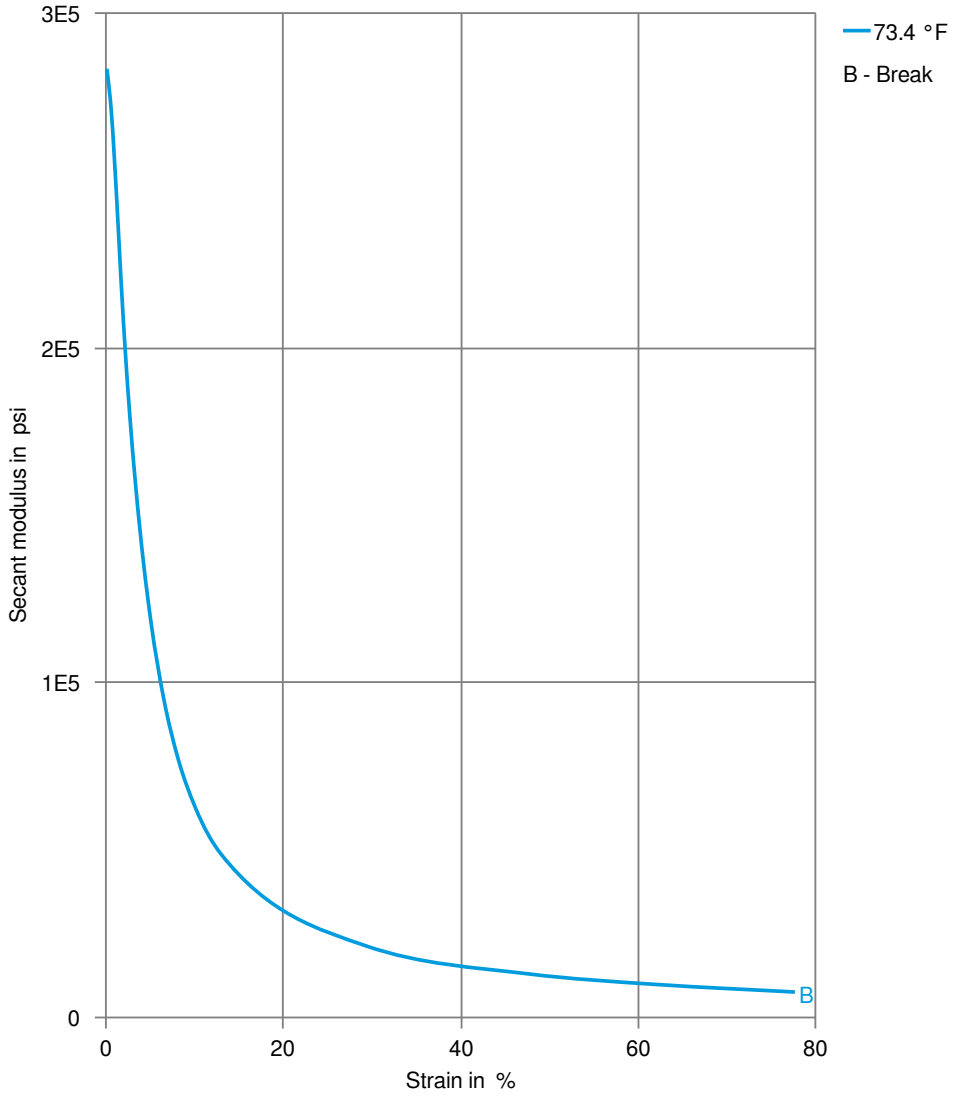
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Stress-strain



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Secant modulus-strain



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