HOSTAFORM® S 9243 XAP®2 ECO-B

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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)
Preliminary Datasheet
ECO-B: Hostaform ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

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	$ftlb/in^2$	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		

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

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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
Sustainability	Bio-Content

Additional information

Processing Notes

Pre-Drying

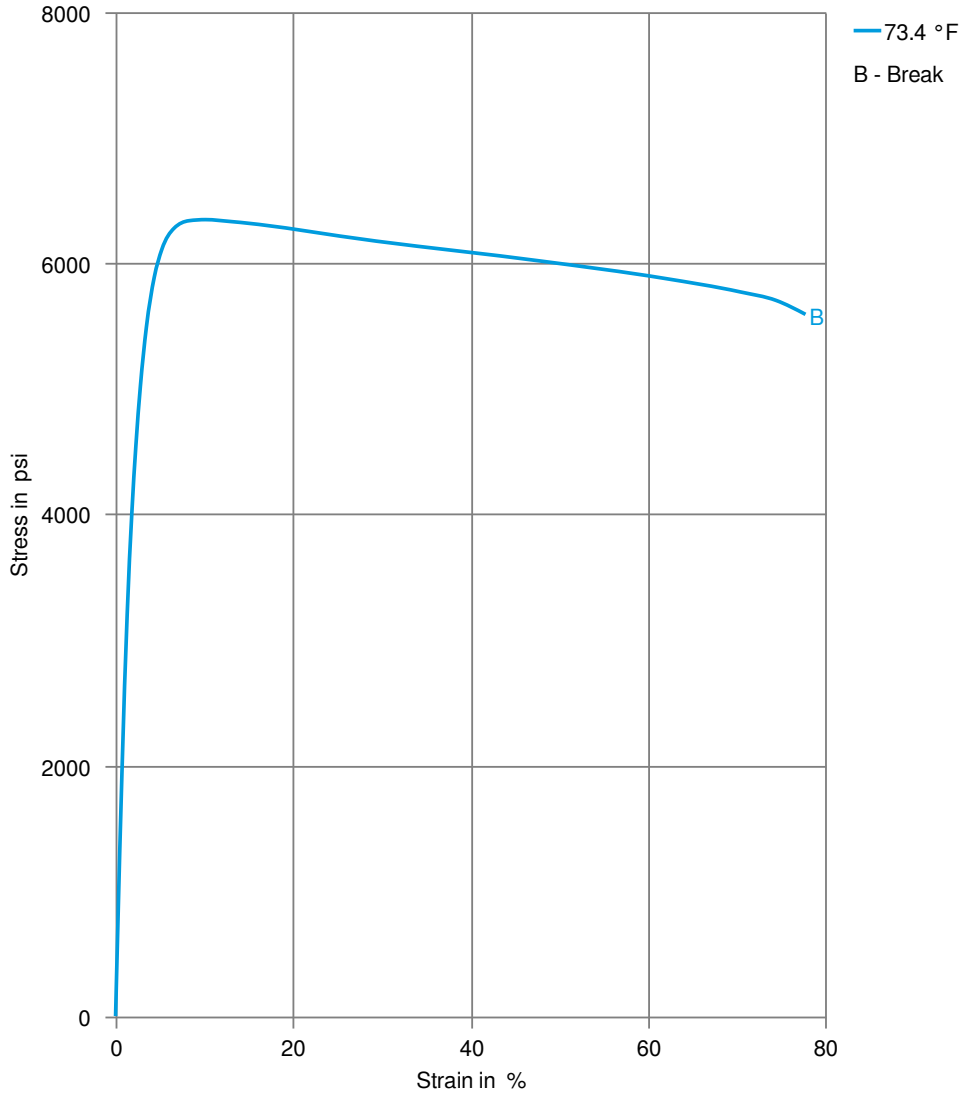
It is normally not necessary to dry HOSTAFORM. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this purpose if the granul

Storage

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

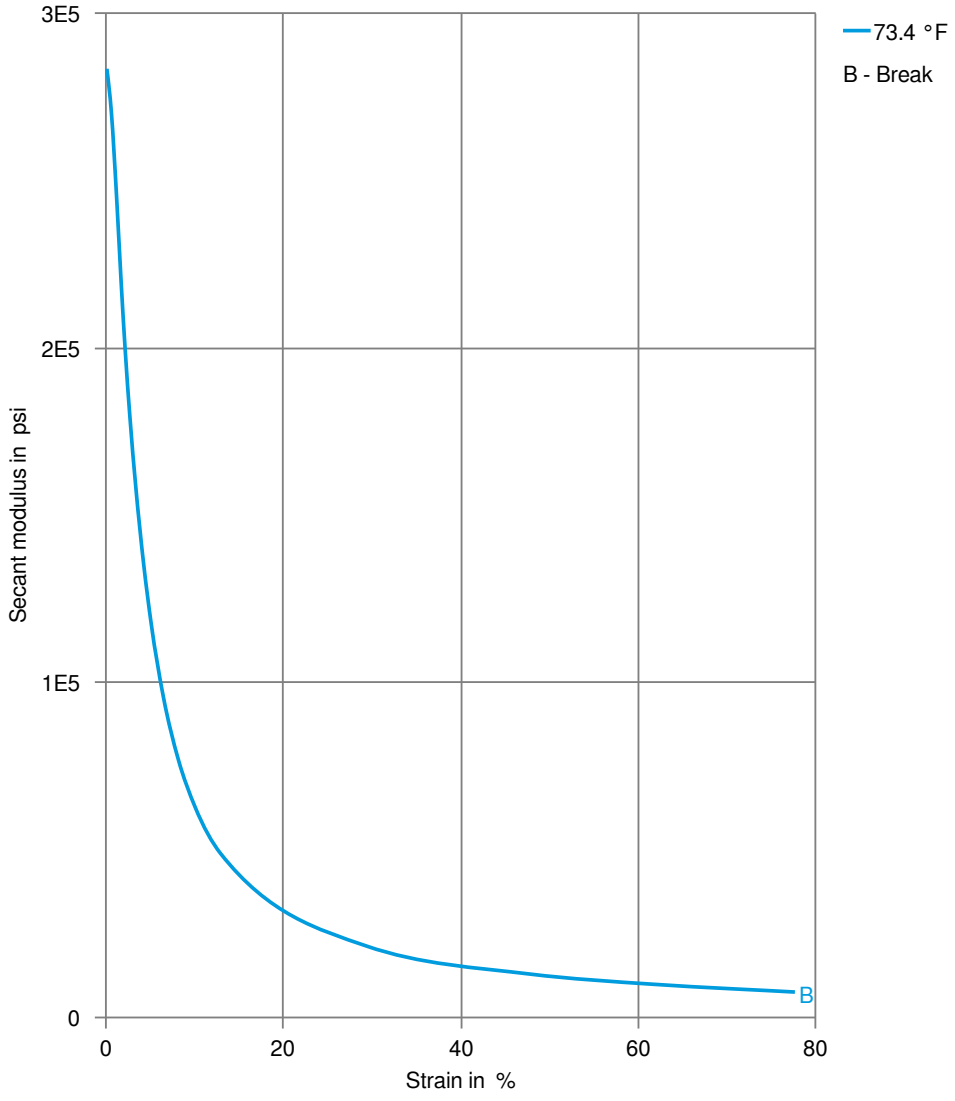
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Stress-strain



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Secant modulus-strain



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