HOSTAFORM® S 9364 WS 10/1570

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Hostaform® acetal copolymer grade S 9364 WS 10/1570 is a highly impact modified grade for demanding applications that also need improved resistance to UV exposure. Besides weatherability, Hostaform® S 9364 WS 10/1570 provides a significant improvement in impact strength and flexibility over standard impact modified grades. This grade is only available in black. 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	4.5	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	

Typical mechanical properties

Tensile modulus	218000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	5900	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20	%	ISO 527-1/-2
Flexural modulus	203000	psi	ISO 178
Flexural stress at 3.5%	5370	psi	ISO 178
Charpy notched impact strength, 23°C	7.61	ftlb/in^2	ISO 179/1eA
Charpy notched impact strength, -30°C	3.33	ftlb/in^2	ISO 179/1eA

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
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

Physical/Other properties

Humidity absorption, 2mm	0.25	%	Sim. to ISO 62
Water absorption, 2mm	0.8	%	Sim. to ISO 62
Density	0.0495	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
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

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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, Extrusion
Additives	Release agent
Special characteristics	High impact or impact modified, U.V. stabilized or stable to weather

Additional information

Processing Notes

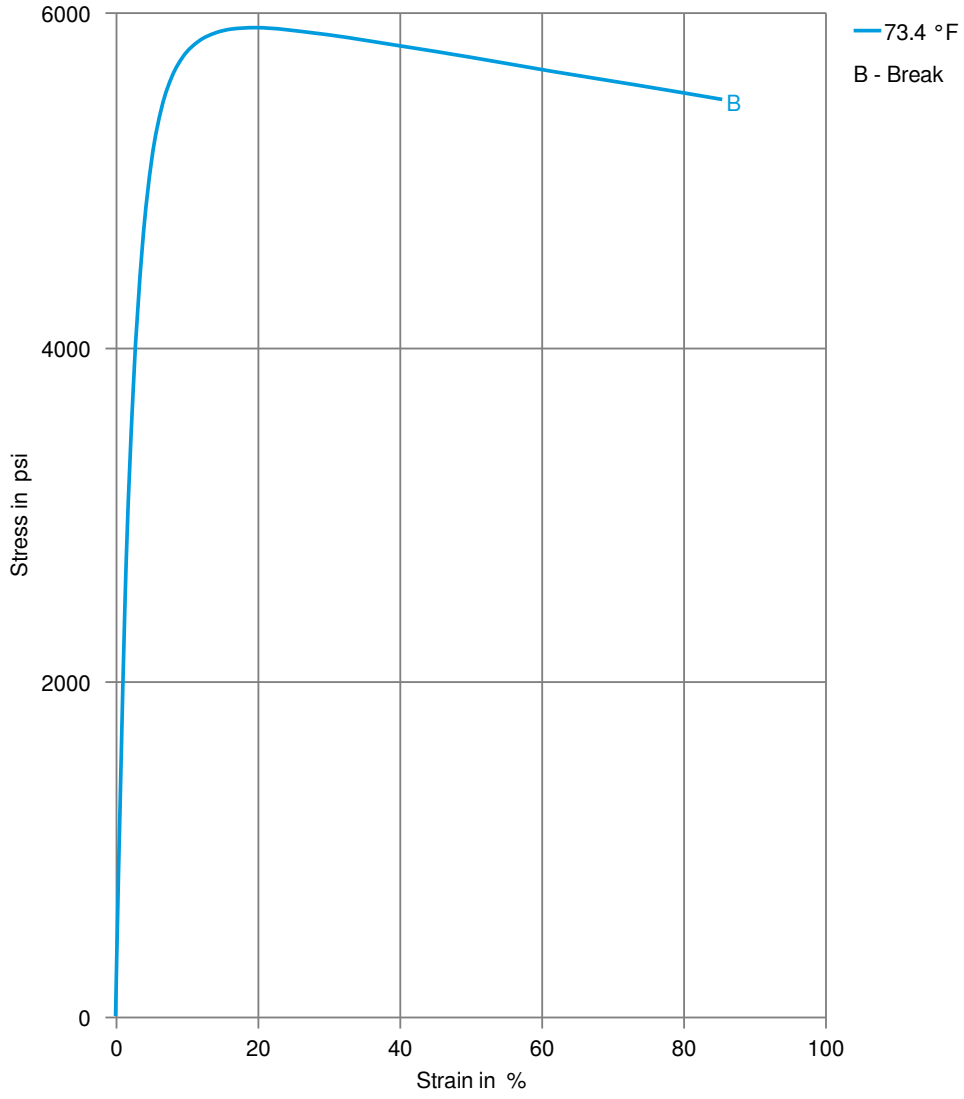
Pre-Drying

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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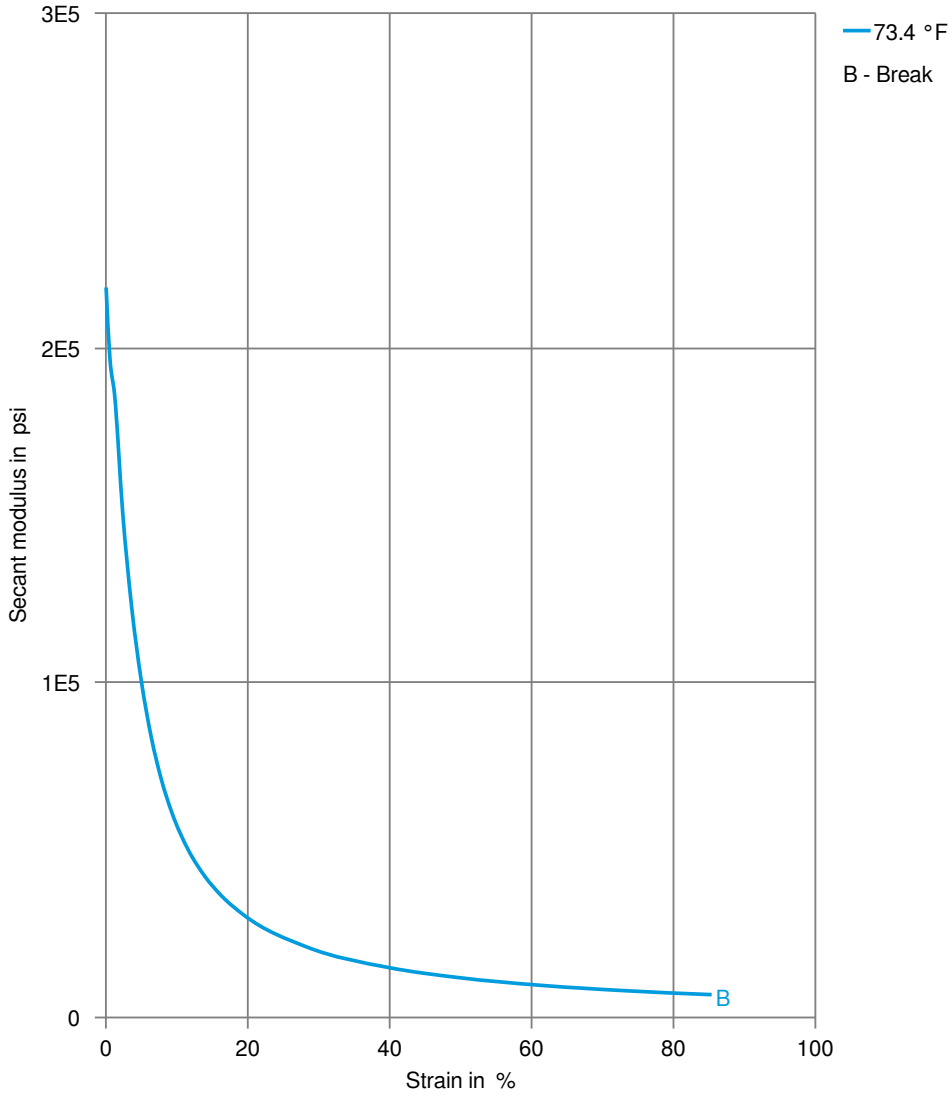
Stress-strain



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Secant modulus-strain



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