HOSTAFORM® S 9364 ECO-C 772

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Hostaform® acetal copolymer grade S 9364 ECO-C 772 is highly impact modified grade for demanding applications. Hostaform® S 9364 ECO-C 772 provides a significant improvement in impact strength and flexibility over standard impact modified grades such as Hostaform® S 9362 and S 9363. Chemical abbreviation according to ISO 1043-1: POM-HI

Hostaform® S 9364 ECO-C 772L 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

Shore D hardness, 15s	76		ISO 48-4 / ISO 868
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, -30°C	5.71	$ftlb/in^2$	ISO 180/1A
Izod notched impact strength, -40°C	4.76	$ftlb/in^2$	ISO 180/1A
Izod impact strength, 23°C	N	$ftlb/in^2$	ISO 180/1U
Izod impact strength, -30°C	N	$ftlb/in^2$	ISO 180/1U
Hardness, Rockwell, M-scale	48		ISO 2039-2
Poisson's ratio	0.43		

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	383	°F
Min. melt temperature	356	°F
Max. melt temperature	410	°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
Ejection temperature	261	°F

Characteristics

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

Additional information

Processing Notes

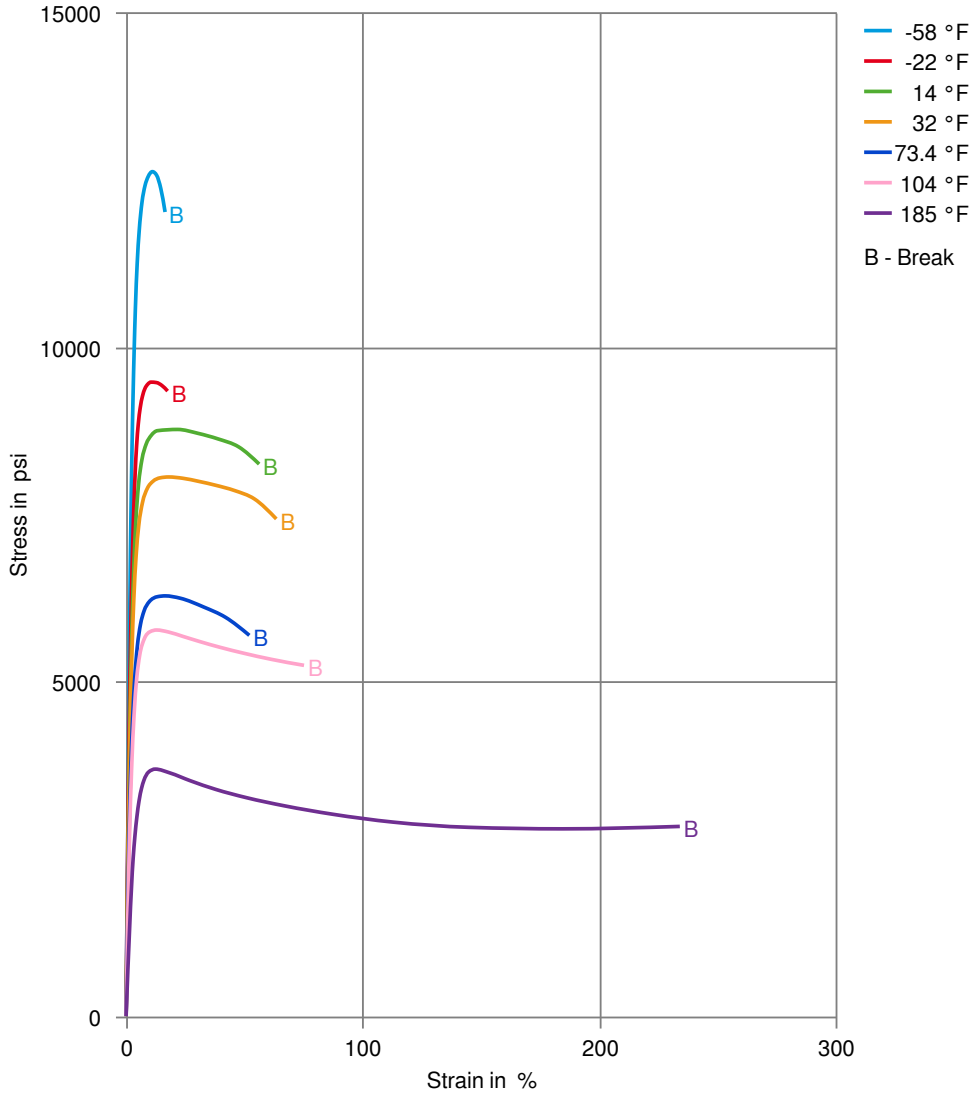
Pre-Drying

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

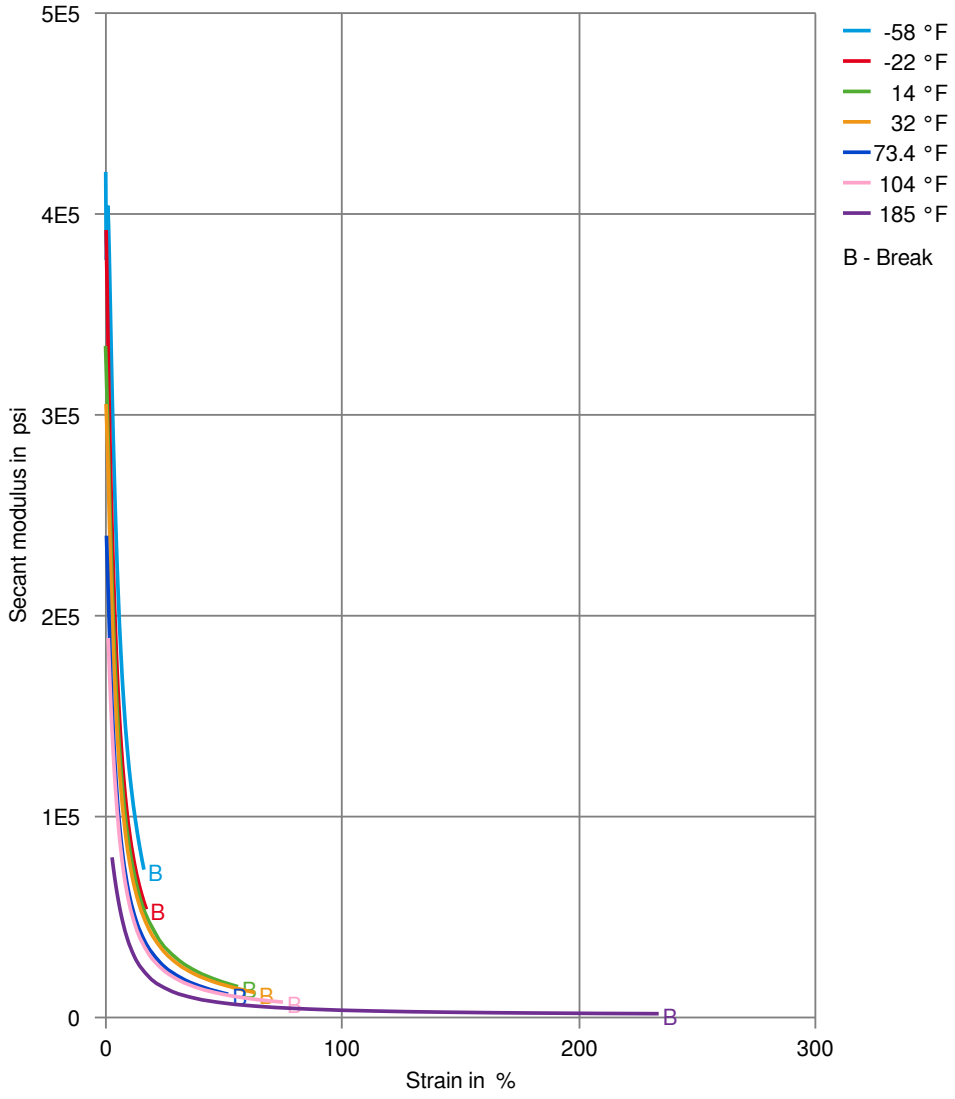


Revised: 2026-01-23 Source: Celanese Materials Database

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Secant modulus-strain



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