Celanese
The chemistry inside innovation™

HOSTAFORM® LX90Z

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Hostaform® LX90Z specialty metallic appearance grades are an integrally colored nominal 9 melt flow rate based acetal copolymer material stabilized for use where ultraviolet radiation exposure is to be encountered. The material is formulated to prevent discoloration, fading, chalking and mechanical property change in severe ultraviolet exposure. This product, formerly called Celcon® UV90Z metallics, is available in many molded-in-color metallic colors formulated for the interior automotive market and other applications. Besides material, optimal finish for specialty metallic parts is dependent on proper drying, gate design, knit line locations, and special processing. Please contact Celanese Technical Service for assistance with your application.

Product information

Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469

Rheological properties

Molding shrinkage, parallel	2.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	406000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	7800	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Flexural modulus	413000	psi	ISO 178
Flexural stress at 3.5%	9720	psi	ISO 178
Charpy notched impact strength, 23°C	1.9	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	1.9	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	2.38	ftlb/in²	ISO 180/1A
Izod notched impact strength, -40°C	1.9	ftlb/in²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	190	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	304	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.50	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.556	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.75	%	Sim. to ISO 62
Density	0.0516	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

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Max. melt temperature	383	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	230	°F
Min. mold temperature	212	°F
Max. mold temperature	257	°F
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	580	psi

Characteristics

Processing	Injection Molding, Extrusion
Additives	Release agent
Special characteristics	Light stabilized or stable to light, U.V. stabilized or stable to weather, Specialty appearance

Additional information

Processing Notes

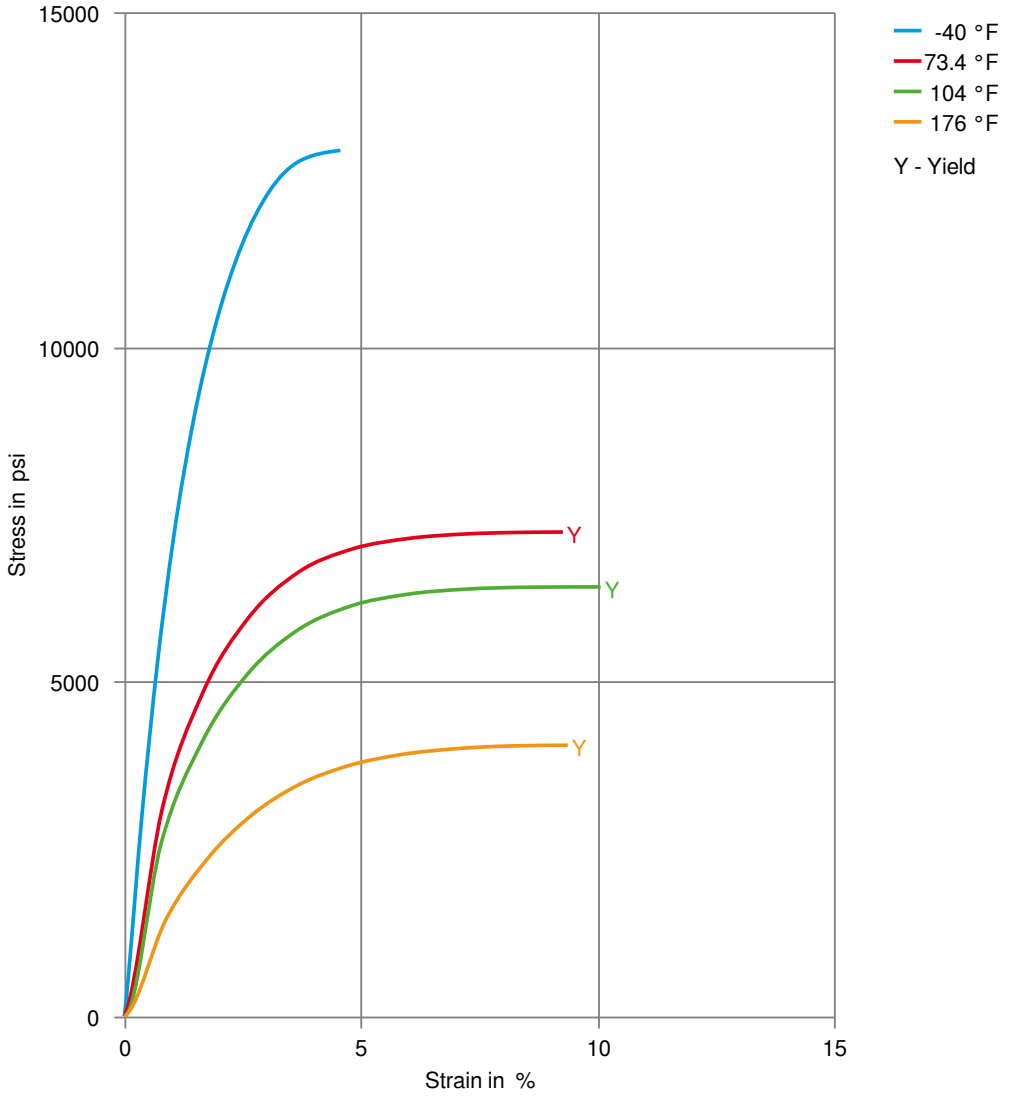
Pre-Drying

Drying is required for this material to prevent poor appearance and performance of the part.

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Stress-strain

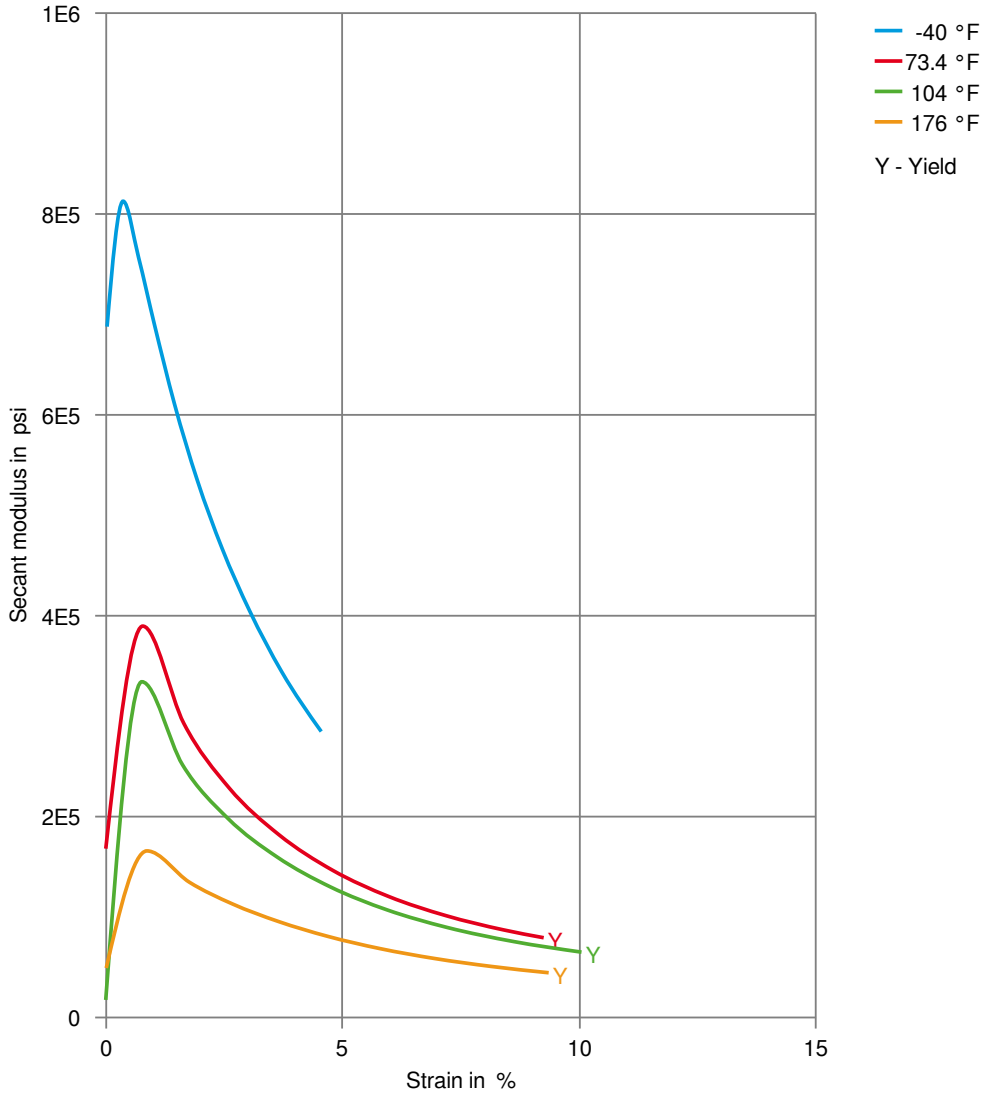


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Secant modulus-strain



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