

HOSTAFORM® LX90Z | POM | UV Resistant

Description

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 Ticona Technical Service for assistance with your application.

Physical properties	Value	Unit	Test Standard
Density	1430	kg/m ³	ISO 1183
Melt volume rate (MVR)	8	cm ³ /10min	ISO 1133
MVR test temperature	190	°C	ISO 1133
MVR test load	2.16	kg	ISO 1133
Mold shrinkage - parallel	2.3	%	ISO 294-4
Mold shrinkage - normal	1.4	%	ISO 294-4
Water absorption (23°C-sat)	0.75	%	ISO 62

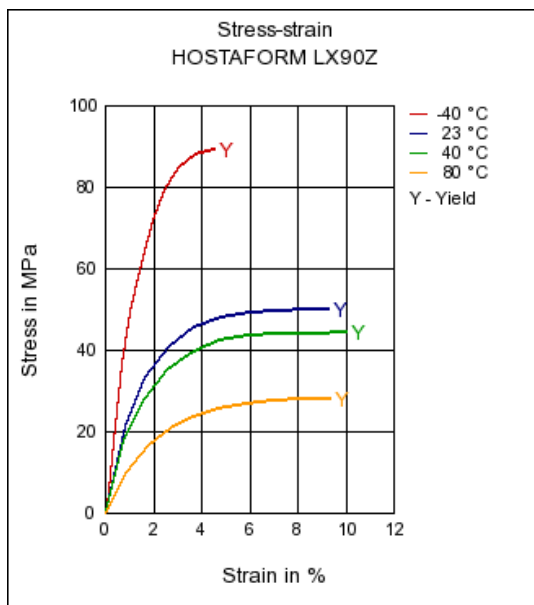
Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	2800	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	54	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	10	%	ISO 527-2/1A
Flexural modulus (23°C)	2850	MPa	ISO 178
Charpy notched impact strength @ 23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy notched impact strength @ -30°C	4.0	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	166	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	88	°C	ISO 75-1/-2
DTUL @ 0.45 MPa	151	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	0.9	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	1	E-4/°C	ISO 11359-2

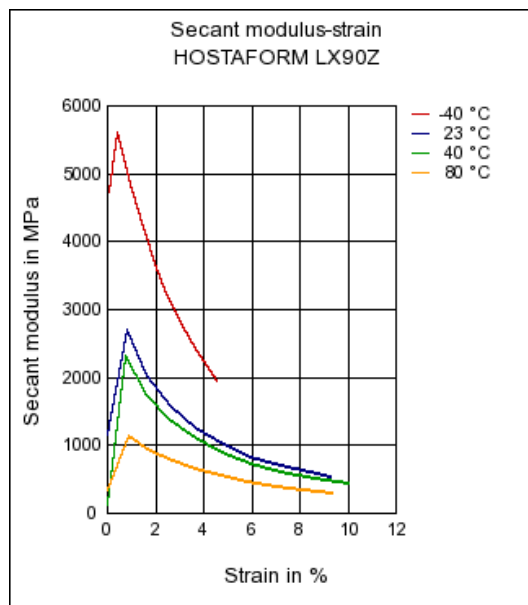
Test specimen production	Value	Unit	Test Standard
Processing conditions acc. ISO	9988-2	-	Internal

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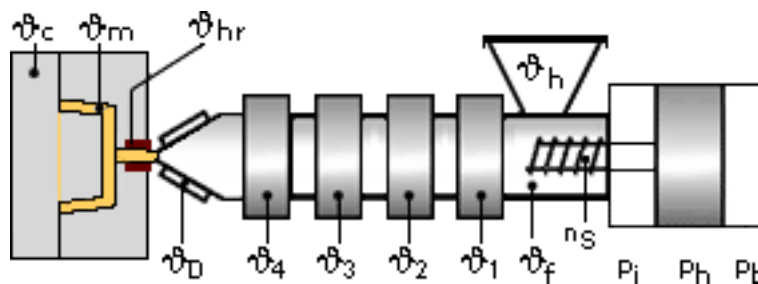
Stress-strain



Secant modulus-strain



Typical injection moulding processing conditions



Pre Drying:

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

Drying time: 3 h

Drying temperature: 105 - 110 °C

Temperature:

	ϕ _{Manifold}	ϕ _{Mold}	ϕ _{Melt}	ϕ _{Nozzle}	ϕ _{Zone4}	ϕ _{Zone3}	ϕ _{Zone2}	ϕ _{Zone1}
min (°C)	180	100	180	185	180	175	170	170
max (°C)	200	125	195	195	190	185	180	175

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Pressure:

	Inj press	Hold press	Back pressure
min (bar)	600	600	0
max (bar)	1200	1200	5

Speed:

Injection speed: slow

Special Info:

Gate and knit line locations are important in order to minimize surface defects and blemishes. Processing parameters can be optimized for surface performance. Please contact Ticona Technical Service to assist with your application.

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General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

The products mentioned herein are not intended for use in medical or dental implants.

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