HOSTAFORM® LX90Z ECO-B

Specialty metallic appearance UV resistant grade for interior automotive
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.
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.

Rheological properties

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

Typical mechanical properties

Tensile Modulus	2800	MPa	ISO 527-1/-2
Yield stress, 50mm/min	54	MPa	ISO 527-1/-2
Yield strain, 50mm/min	10	%	ISO 527-1/-2
Flexural Modulus	2850	MPa	ISO 178
Flexural Stress at 3.5%	67	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	4	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	5	kJ/m²	ISO 180/1A
Izod notched impact strength, -40°C	4	kJ/m²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	88	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	151	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2

Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.75	%	Sim. to ISO 62
Density	1430	kg/m³	ISO 1183

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Injection

Drying Temperature	100 - 120	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Max. mould temperature	100 - 125	°C
Back pressure	4	MPa
Injection speed	slow	

Characteristics

Additives	Release agent, Biobased

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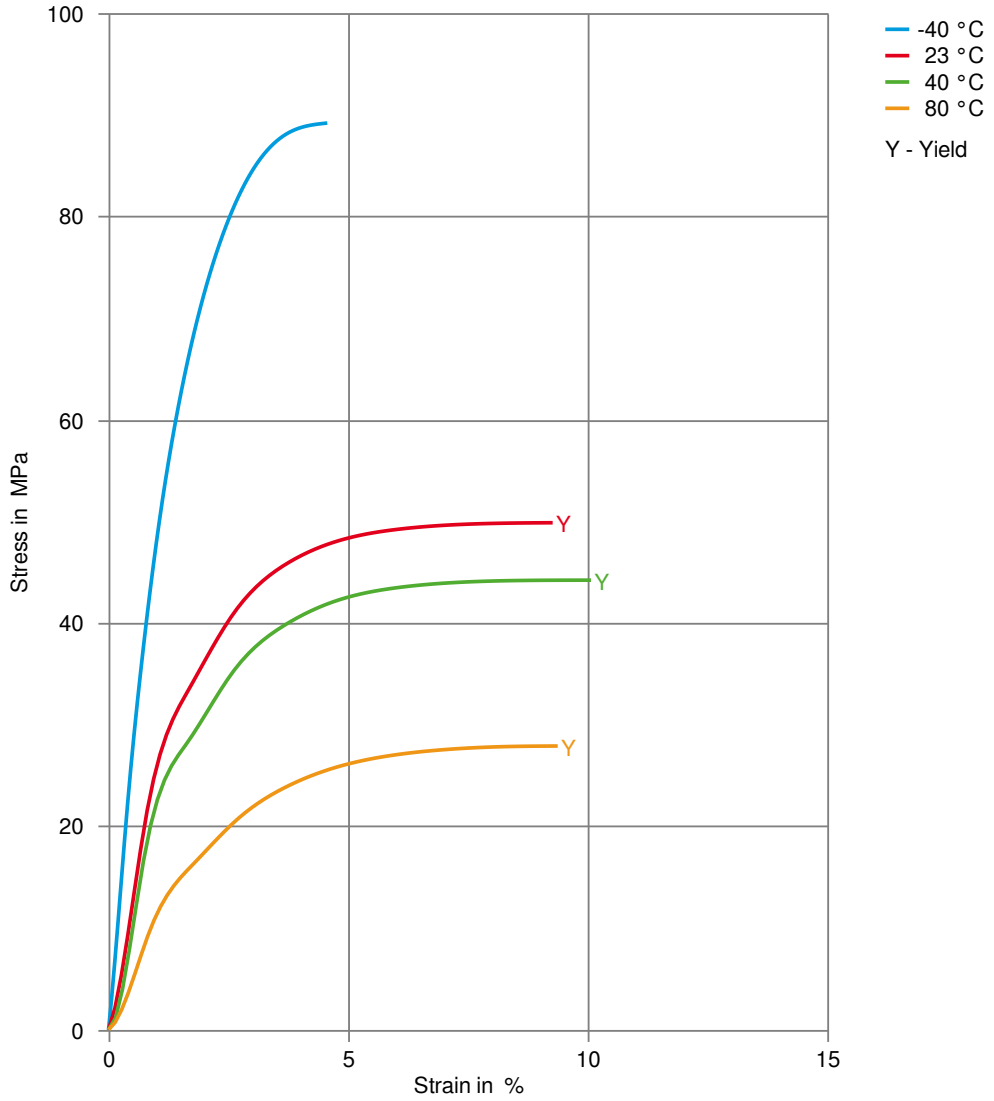
Stress-strain



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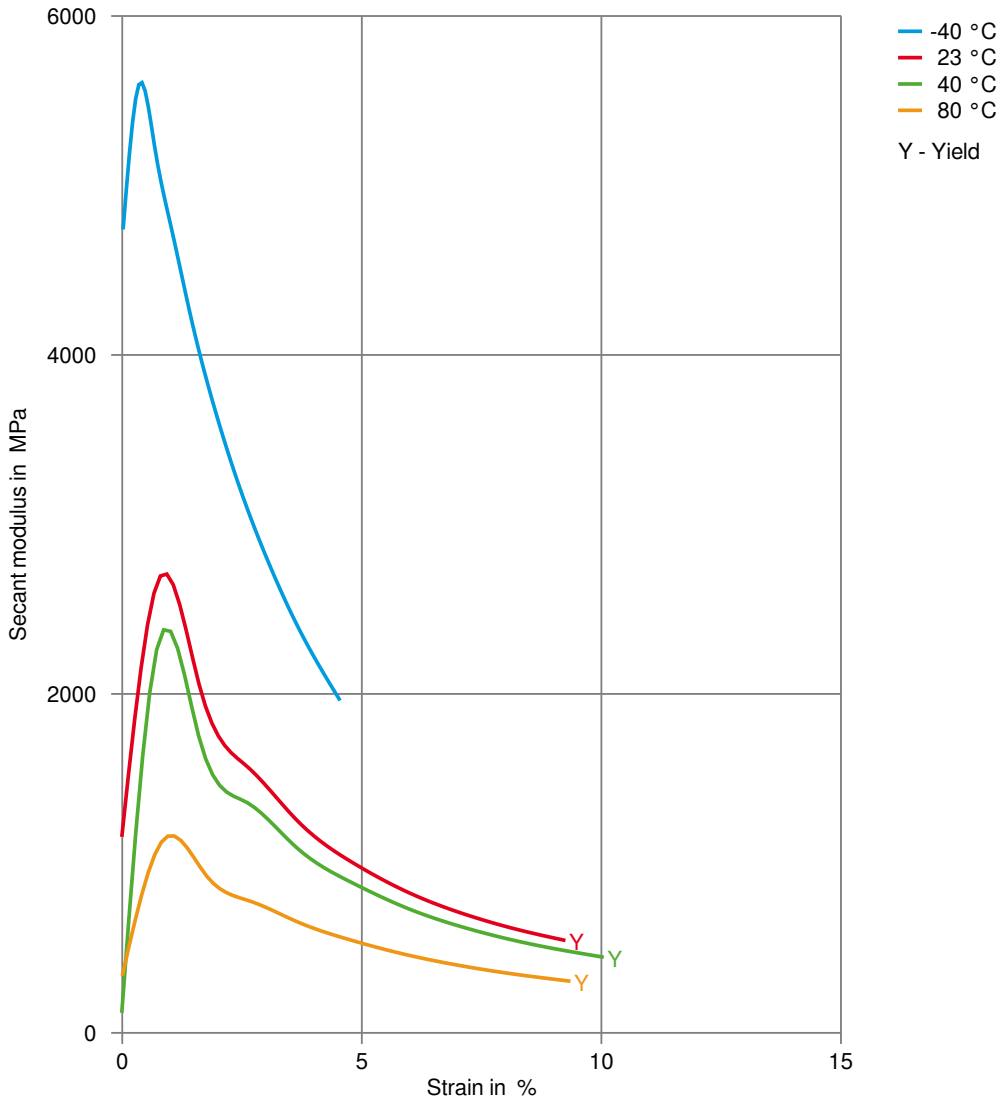
Secant modulus-strain



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Processing Texts

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

Revised: 2023-02-23 Source: Celanese Materials Database

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. Colourants or other additives may cause significant variations in data values. Properties of moulded 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. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, 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. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. 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 for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.
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