

# HOSTAFORM® LX90Z

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.

## 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/m <sup>2</sup> | ISO 179/1eA  |
| Charpy notched impact strength, -30°C | 4 kJ/m <sup>2</sup> | ISO 179/1eA  |
| Izod notched impact strength, 23°C    | 5 kJ/m <sup>2</sup> | ISO 180/1A   |
| Izod notched impact strength, -40°C   | 4 kJ/m <sup>2</sup> | 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/m <sup>3</sup> | ISO 1183       |

## 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         |

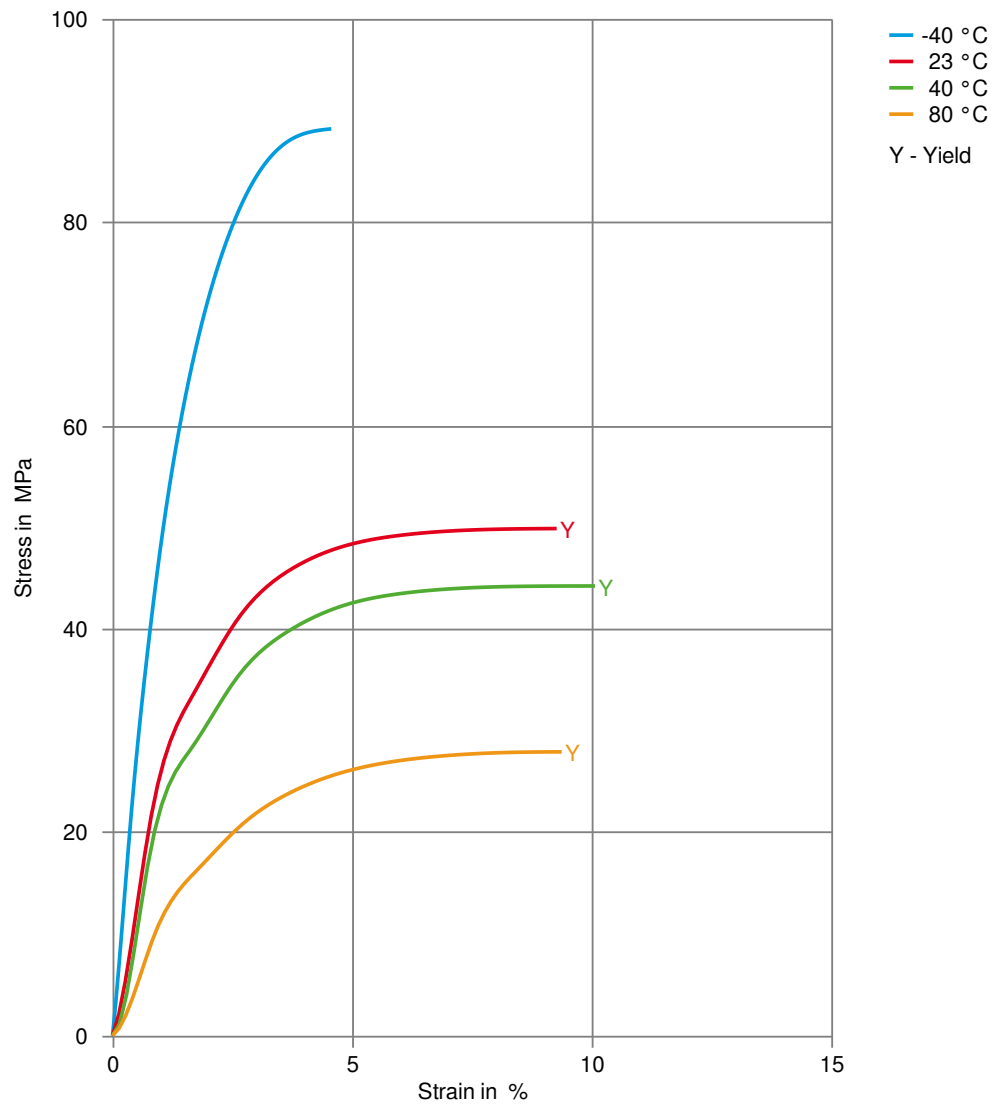
# HOSTAFORM® LX90Z

## Characteristics

Additives

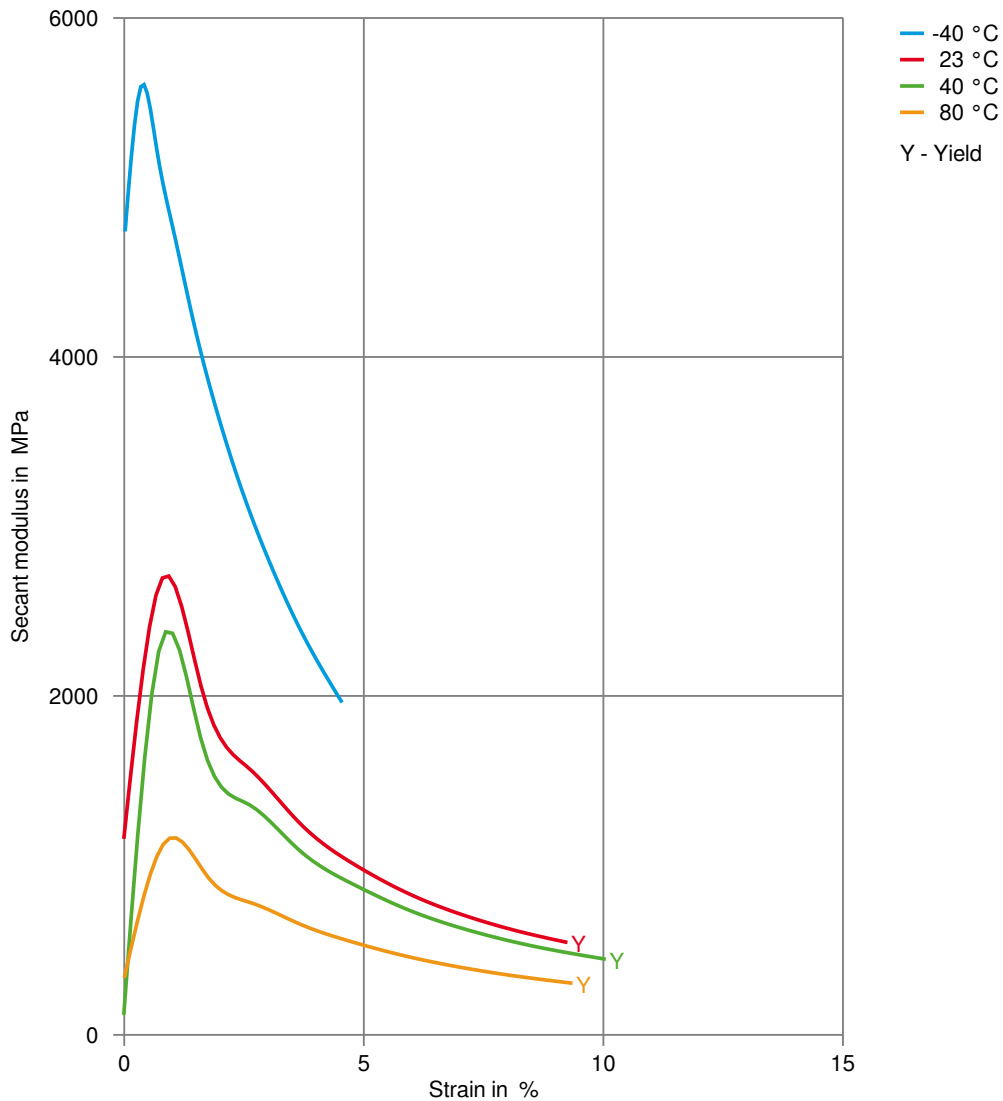
Release agent

## 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.

## Other Approvals

Other Approvals

| OEM                    | Specification | Additional Information |
|------------------------|---------------|------------------------|
| Stellantis - FCA Group | POM 100.55    |                        |