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# HOSTAFORM® LX90Z XAP®2

## HOSTAFORM®

Hostaform® acetal copolymer grade LX90Z XAP®2 is UV stabilized material available in a range of molded in metallic colors generally for automotive interior applications. In addition, Hostaform® LX90Z XAP®2 has lower volatile emissions as required for some automotive interiors. 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. Low Emission Performance [VDA-275] <5 PPM

### Product information

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

### 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 | 2700 | MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 54 | MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 8 | % | ISO 527-1/-2 |
| Flexural modulus | 2900 | 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 |
| Poisson's ratio | 0.422 | | |

### Thermal properties

| | | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 165 | °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 90 | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 147 | °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 90 | E-6/K | ISO 11359-1/-2 |
| Coefficient of linear thermal expansion (CLTE), normal | 100 | E-6/K | ISO 11359-1/-2 |

### Flammability

| | | | |
|---|---|---|---|
| FMVSS Class | B | | ISO 3795 (FMVSS 302) |
| Burning rate, Thickness 2 mm | 53.1 | mm/min | ISO 3795 (FMVSS 302) |

### Physical/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 |

### Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 100 | °C |
| Drying Time, Dehumidified Dryer | 3 - 4 | h |
| Processing Moisture Content | ≤0.2 | % |

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| | | |
|---|---|---|
| Melt Temperature Optimum | 190 | °C |
| Min. melt temperature | 180 | °C |
| Max. melt temperature | 195 | °C |
| Screw tangential speed | ≤0.3 | m/s |
| Mold Temperature Optimum | 110 | °C |
| Min. mould temperature | 100 | °C |
| Max. mould temperature | 125 | °C |
| Hold pressure range | 60 - 120 | MPa |
| Back pressure | 4 | MPa |

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding, Extrusion |
| Delivery form | Pellets |
| Additives | Release agent |
| Special characteristics | Light stabilised or stable to light, U.V. stabilised or stable to weather, Specialty appearance, Low emissions |

## Additional information

Processing Notes

### Pre-Drying

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

## Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|---|---|---|
| General Motors | GMW17624P-POM | Multiple Mold-in Color, Metallic Colors Used To Create Package |
| Mercedes-Benz | DBL5404 | BQF |
| Nissan | Color approved | |
| Renault | UB15, No Spec, Special Part Approval, See Your CE Account Manager. | |
| Stellantis | MS.50095 / POM-C.2900F.5I.LE | CPN5080 100% Color match, 01378_15_02346 |

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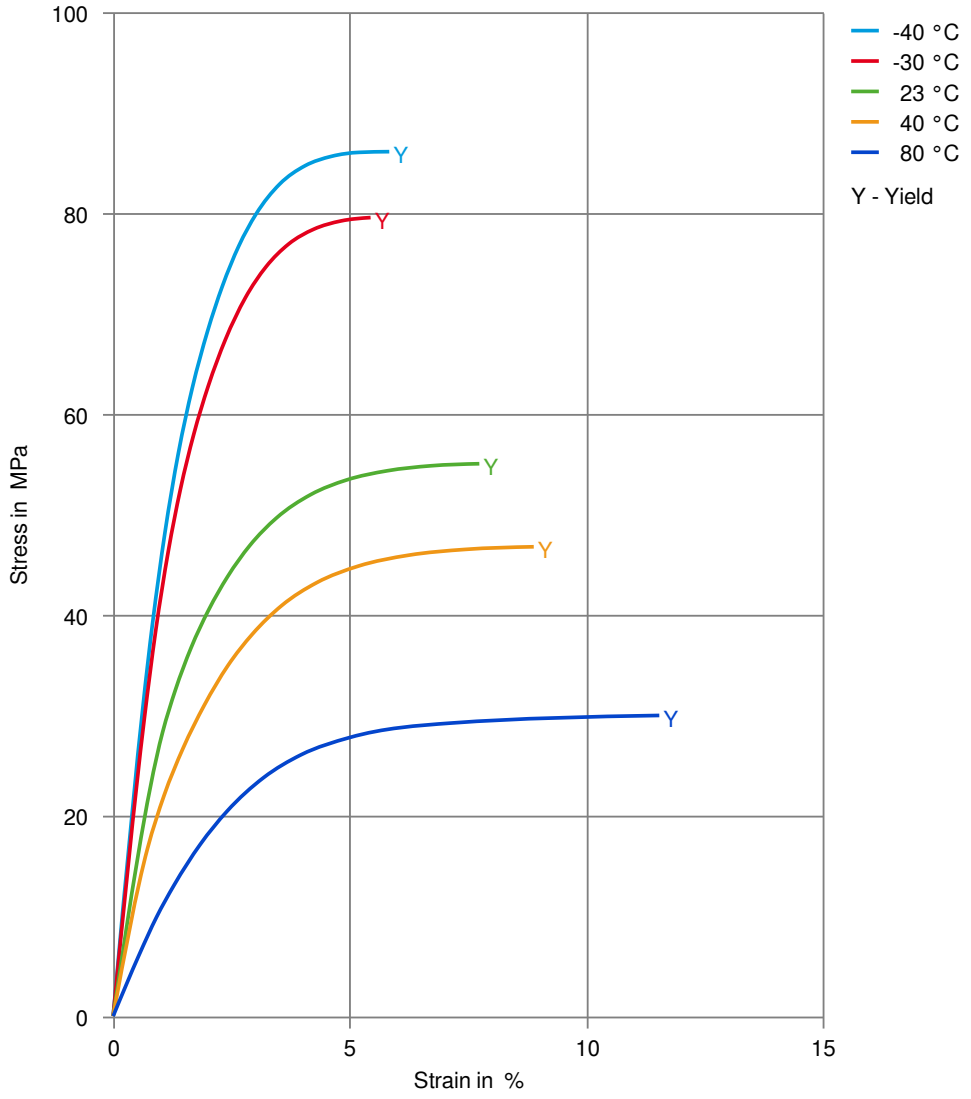
## HOSTAFORM®

### Stress-strain



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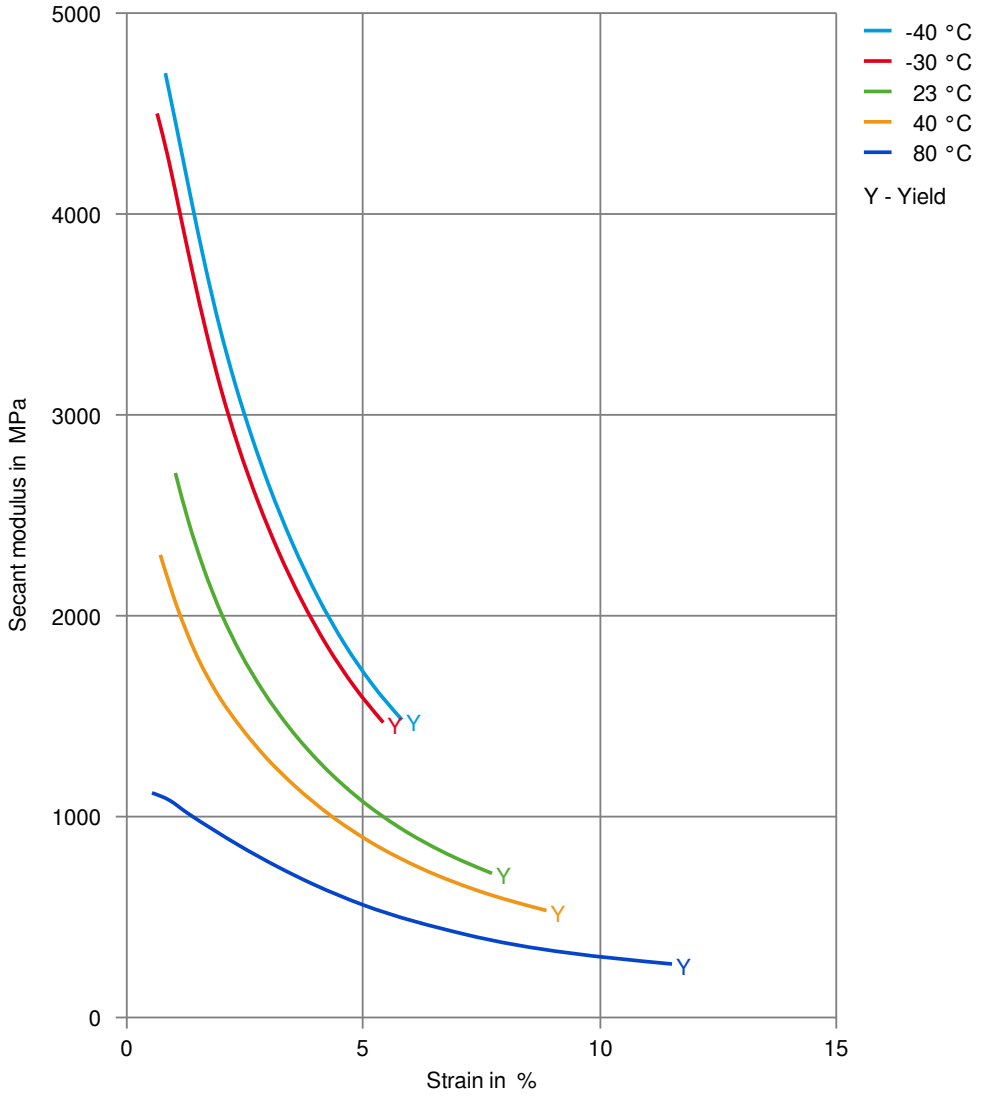
## HOSTAFORM®

### Secant modulus-strain



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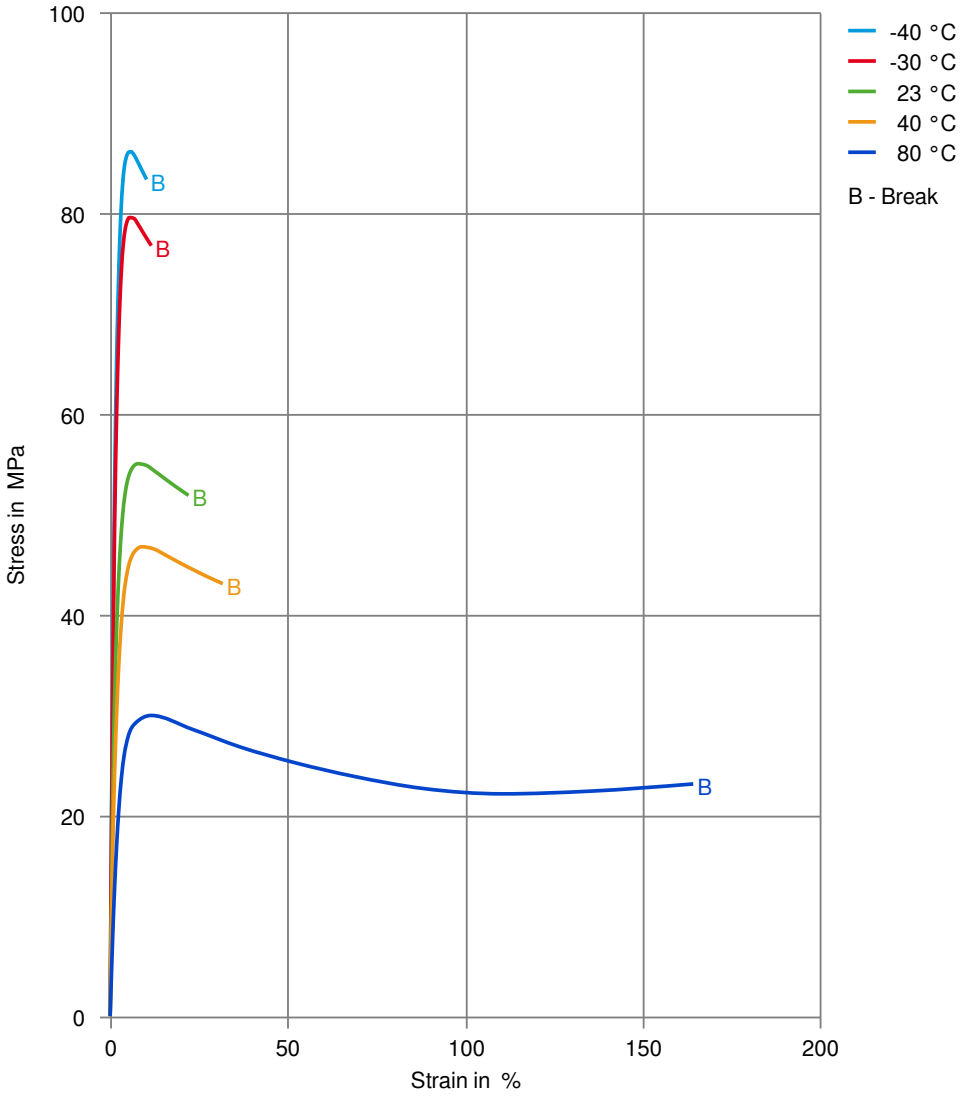
# HOSTAFORM® LX90Z XAP®2

## HOSTAFORM®

### Stress-strain, 50mm/min



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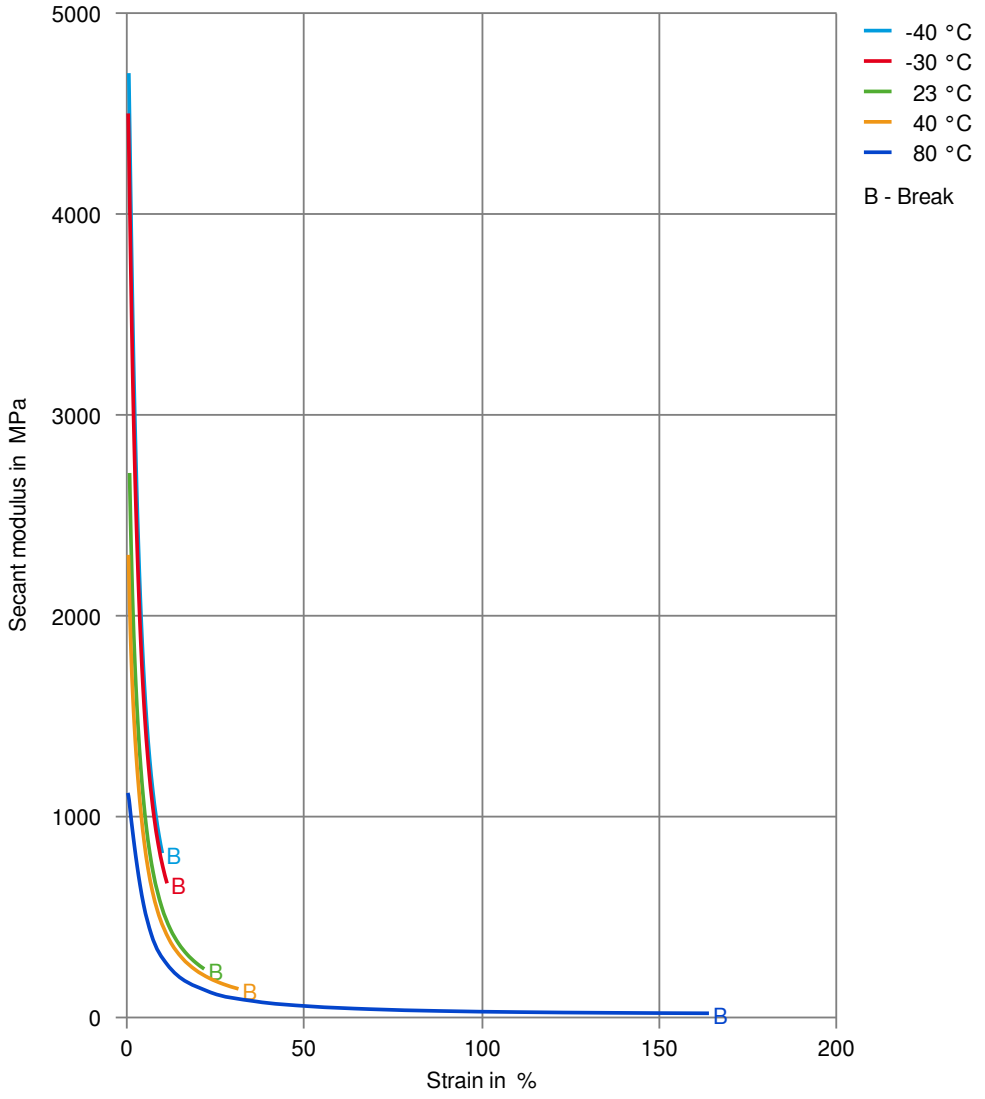
# HOSTAFORM® LX90Z XAP®2

## HOSTAFORM®

### Secant modulus-strain, 50mm/min






Revised: 2025-04-18 Source: Celanese Materials Database