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# HOSTAFORM® UV90Z XAP®2

## HOSTAFORM®

Hostaform® acetal copolymer grade UV90Z XAP®2 is a UV stabilized material available in a range of colors especially for automotive interior applications. In addition, Hostaform® UV90Z XAP®2 has lower emissions as required for some automotive interiors. Low Emission Performance [VDA-275]

## Product information

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

## Rheological properties

| | | | |
|---|---|---|---|
| Melt volume-flow rate | 8 | $cm^3$/10min | ISO 1133 |
| Temperature | 190 | °C | |
| Load | 2.16 | kg | |
| Moulding shrinkage, parallel | 2.0 | % | ISO 294-4, 2577 |
| Moulding shrinkage, normal | 1.7 | % | ISO 294-4, 2577 |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 2650 | MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 64 | MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 9 | % | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C | 6 | $kJ/m^2$ | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 5 | $kJ/m^2$ | ISO 179/1eA |
| Hardness, Rockwell, M-scale | 83 | | ISO 2039-2 |
| Poisson's ratio | 0.38[C] | | |

[C]: Calculated

## Thermal properties

| | | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 167 | °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 | 154 | °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 | 110 | E-6/K | ISO 11359-1/-2 |

## Electrical properties

| | | | |
|---|---|---|---|
| Surface resistivity | 1.3E16 | Ohm | IEC 62631-3-2 |
| Arc Resistance | 240 | s | UL 746B |

## Physical/Other properties

| | | | |
|---|---|---|---|
| Density | 1400 | $kg/m^3$ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | no | |
| Drying Temperature | 100 | °C |
| Drying Time, Dehumidified Dryer | 3 - 4 | h |
| Processing Moisture Content | ≤0.2 | % |
| Melt Temperature Optimum | 200 | °C |

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| | | |
|---|---|---|
| Min. melt temperature | 190 | °C |
| Max. melt temperature | 210 | °C |
| Screw tangential speed | ≤0.3 | m/s |
| Mold Temperature Optimum | 100 | °C |
| Min. mould temperature | 80 | °C |
| Max. mould temperature | 120 | °C |
| Hold pressure range | 60 - 120 | MPa |
| Back pressure | 4 | MPa |

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding |
| Delivery form | Pellets |
| Special characteristics | U.V. stabilised or stable to weather, Low emissions |

## Additional information

Processing Notes

### Pre-Drying

Drying is recommended to obtain optimum emission performance. If material contacts moisture through improper storage or handling, drying may be necessary to prevent splay and odor issues.

## Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|---|---|---|
| Ford | WSS-M4D840-B1 | |
| General Motors | GMW16924P-POM-C2 | |
| Li Auto | Q/LiA5310020 | 2021 (V2) |
| Stellantis | MS.502xx / POM-C.2400F.5C.MF | CPN1758 100% COLOR MATCH |
| Stellantis - Chrysler | MS.50095 / CPN-1758 | 100% Color Match |
| VW Group | TL 524 76 | Natural |

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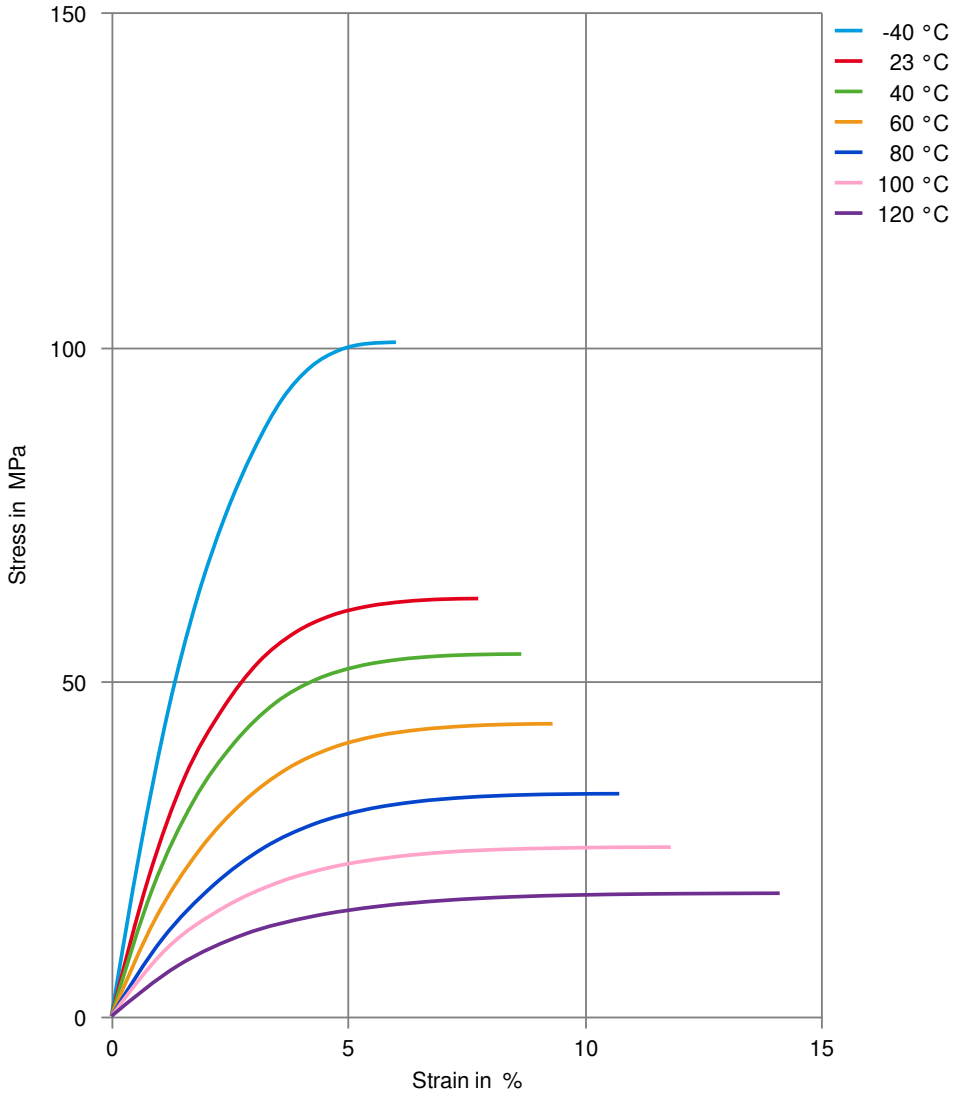
### Stress-strain



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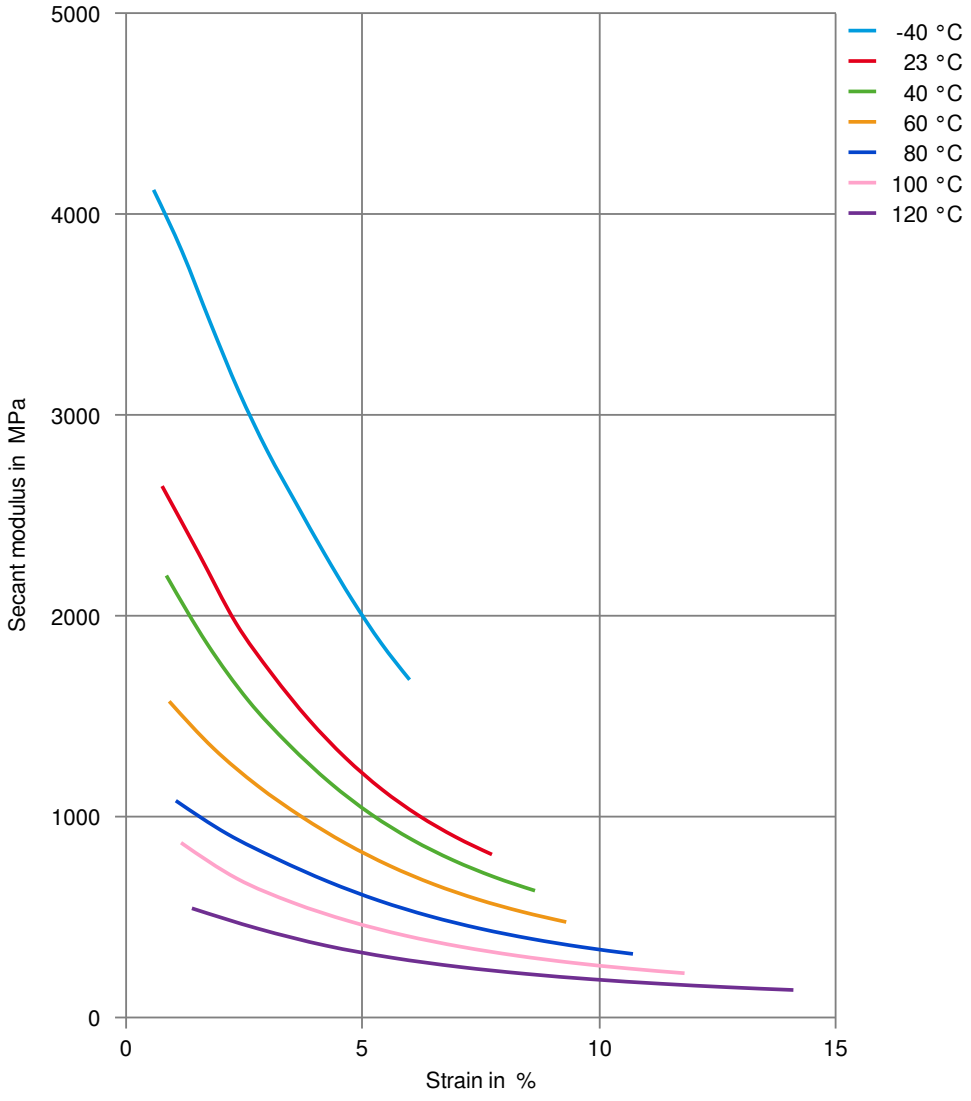
### Secant modulus-strain






Revised: 2024-11-05 Source: Celanese Materials Database