

HOSTAFORM® UV270Z XAP2™ - POM

Description

Preliminary Data Sheet Hostaform® acetal copolymer grade UV270Z XAP2™ is a UV stabilized material available in a range of colors generally for automotive interior applications. In addition, Hostaform® UV270XAP2™ has lower emissions as required for some automotive interiors. Low Emission Performance [VDA-275] <5 PPM

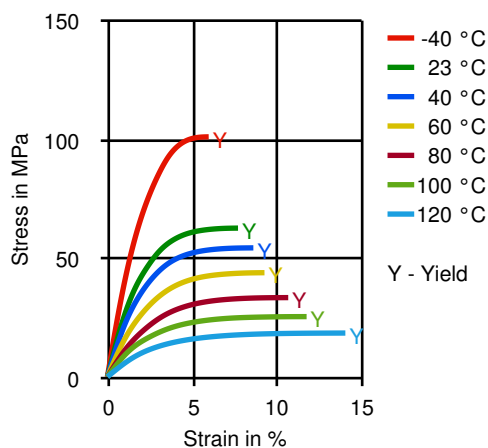
| Physical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------------------------|-----------------|
| Density | 1400 | kg/m ³ | ISO 1183 |
| Melt volume rate, MVR | 24 | cm ³ /10min | ISO 1133 |
| MVR temperature | 190 | °C | ISO 1133 |
| MVR load | 2,16 | kg | ISO 1133 |
| Molding shrinkage, parallel | 2,1 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 2,0 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| Tensile modulus | 2650 | MPa | ISO 527-2/1A |
| Tensile stress at yield, 50mm/min | 65 | MPa | ISO 527-2/1A |
| Tensile strain at yield, 50mm/min | 8 | % | ISO 527-2/1A |
| Flexural modulus, 23°C | 2600 | MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 5 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 4,5 | kJ/m ² | ISO 179/1eA |
| Izod impact notched, 23°C | 5,4 | kJ/m ² | ISO 180/1A |

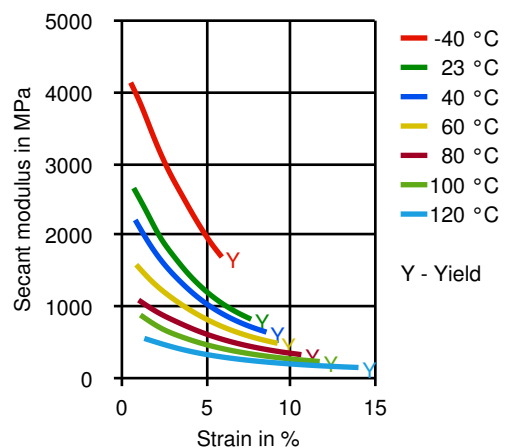
| Thermal properties | Value | Unit | Test Standard |
|--|-------|--------|----------------|
| Melting temperature, 10°C/min | 167 | °C | ISO 11357-1/-3 |
| DTUL at 1.8 MPa | 95 | °C | ISO 75-1, -2 |
| DTUL at 0.45 MPa | 155 | °C | ISO 75-1, -2 |
| Coeff. of linear therm expansion, parallel | 1,2 | E-4/°C | ISO 11359-2 |
| Coeff. of linear therm expansion, normal | 1,2 | E-4/°C | ISO 11359-2 |

Diagrams

Stress-strain



Secant modulus-strain



Typical injection moulding processing conditions

| Pre Drying | Value | Unit | Test Standard |
|--------------------|-----------|------|---------------|
| Drying time | 3 - 4 | h | - |
| Drying temperature | 100 - 120 | °C | - |
| Temperature | Value | Unit | Test Standard |
| Zone1 temperature | 165 - 175 | °C | - |
| Zone2 temperature | 170 - 180 | °C | - |
| Zone3 temperature | 170 - 180 | °C | - |
| Zone4 temperature | 175 - 185 | °C | - |

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| | | | |
|------------------------|--------------|-------------|----------------------|
| Nozzle temperature | 180 - 190 | °C | - |
| Melt temperature | 180 - 190 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Hot runner temperature | 180 - 200 | °C | - |
| Pressure | Value | Unit | Test Standard |
| Back pressure max. | 40 | bar | - |
| Speed | Value | Unit | Test Standard |
| Injection speed | slow-medium | - | - |

Other text information

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.

Characteristics

Special Characteristics

UV resistant

Delivery Form

Pellets

Processing

Injection molding

Contact Information

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General Disclaimer

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