

HOSTAFORM® S 9364UV

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Hostaform® acetal copolymer grade S 9364UV is a highly impact modified grade for demanding applications. Hostaform® S 9364UV provides a significant improvement in impact strength and flexibility over prior generation impact modified grades such as Hostaform® S 9063 and S 9064. Hostaform® S 9364UV offers some UV stability but is not designed for the typical UV resistance requirements of interior and exterior automotive applications.

Product information

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

Rheological properties

| | | |
|-----------------------|----------------------------|----------|
| Melt volume-flow rate | 4.5 cm ³ /10min | ISO 1133 |
| Temperature | 190 °C | |
| Load | 2.16 kg | |

Typical mechanical properties

| | | |
|--|----------------------|--------------|
| Tensile modulus | 1650 MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 43 MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 14 % | ISO 527-1/-2 |
| Charpy notched impact strength, 23 °C | 17 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30 °C | 8 kJ/m ² | ISO 179/1eA |
| Poisson's ratio | 0.42 ^[C] | |

[C]: Calculated

Thermal properties

| | | |
|--|-----------|----------------|
| Melting temperature, 10 °C/min | 165 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 75 °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 120 E-6/K | ISO 11359-1/-2 |
| Coefficient of linear thermal expansion (CLTE), normal | 110 E-6/K | ISO 11359-1/-2 |

Physical/Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.25 % | Sim. to ISO 62 |
| Water absorption, 2mm | 0.8 % | Sim. to ISO 62 |
| Density | 1370 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 | 190 °C |
| Min. melt temperature | 180 °C |
| Max. melt temperature | 200 °C |
| Screw tangential speed | ≤0.3 m/s |
| Mold Temperature Optimum | 65 °C |
| Min. mould temperature | 60 °C |
| Max. mould temperature | 70 °C |

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Hold pressure range
Back pressure

60 - 120 MPa
2 MPa

Characteristics

| | |
|-------------------------|--|
| Processing | Injection Moulding, Extrusion |
| Delivery form | Pellets |
| Additives | Release agent |
| Special characteristics | High impact or impact modified, U.V. stabilised or stable to weather |

Additional information

Processing Notes

Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying to prevent splay and odor problems.