

HOSTAFORM® S 9364

high performance impact modified

Hostaform® acetal copolymer grade S 9364 is highly impact modified grade for demanding applications. Hostaform® S 9364 provides a significant improvement in impact strength and flexibility over standard impact modified grades such as Hostaform® S 9362 and S 9363. Chemical abbreviation according to ISO 1043-1: POM-HI

Rheological properties

| | | |
|------------------------------|--------------------------|-----------------|
| Melt volume-flow rate | 4 cm ³ /10min | ISO 1133 |
| Temperature | 190 °C | |
| Load | 2.16 kg | |
| Moulding shrinkage, parallel | 1.6 % | ISO 294-4, 2577 |
| Moulding shrinkage, normal | 1.5 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | |
|---------------------------------------|----------------------|--------------------|
| Tensile Modulus | 1650 MPa | ISO 527-1/-2 |
| Yield stress, 50mm/min | 43 MPa | ISO 527-1/-2 |
| Yield strain, 50mm/min | 16 % | ISO 527-1/-2 |
| Flexural Modulus | 1550 MPa | ISO 178 |
| Flexural Stress at 3.5% | 42 MPa | ISO 178 |
| Shear Modulus | 908 MPa | ISO 6721 |
| Charpy impact strength, 23°C | NB kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | NB kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 21 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 11 kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 20 kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C | 12 kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -40°C | 10 kJ/m ² | ISO 180/1A |
| Izod impact strength, 23°C | NB kJ/m ² | ISO 180/1U |
| Izod impact strength, -30°C | NB kJ/m ² | ISO 180/1U |
| Poisson's ratio | 0.43 | |
| Shore D hardness, 15s | 76 | ISO 48-4 / ISO 868 |

Thermal properties

| | | |
|---|-----------|----------------|
| Melting temperature, 10°C/min | 166 °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa | 75 °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 140 °C | ISO 75-1/-2 |
| Vicat softening temperature, 50°C/h, 50N | 122 °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 120 E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 110 E-6/K | ISO 11359-1/-2 |

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Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.25 % | Sim. to ISO 62 |
| Water absorption, 2mm | 0.8 % | Sim. to ISO 62 |
| Density | 1360 kg/m ³ | ISO 1183 |

Injection

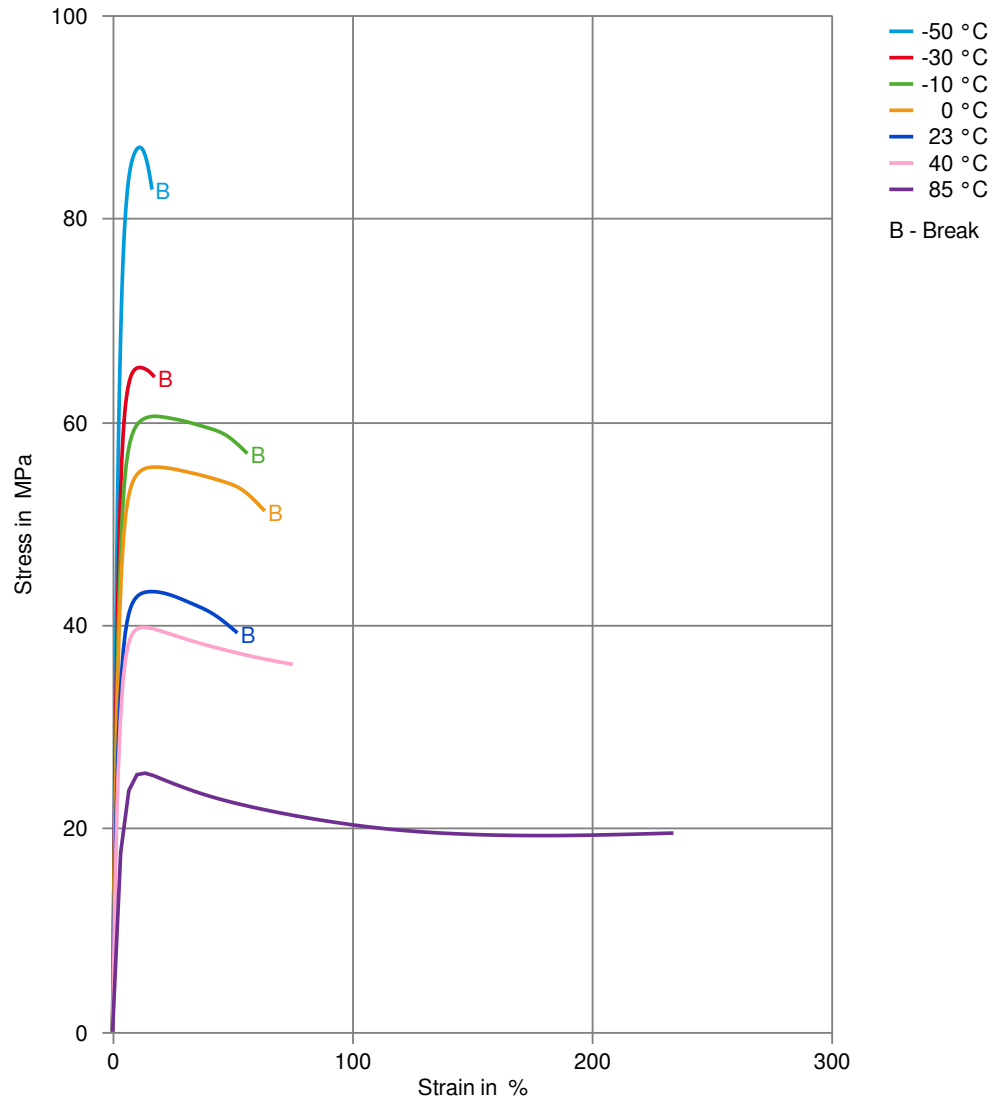
| | | |
|---------------------------------|--------------|----------|
| Drying Temperature | 100 - 120 °C | |
| Drying Time, Dehumidified Dryer | 3 - 4 h | |
| Melt Temperature Optimum | 200 °C | Internal |
| Max. mould temperature | 60 - 70 °C | |
| Back pressure | 2 MPa | |
| Injection speed | slow | |

Characteristics

| | |
|-----------|---------------|
| Additives | Release agent |
|-----------|---------------|

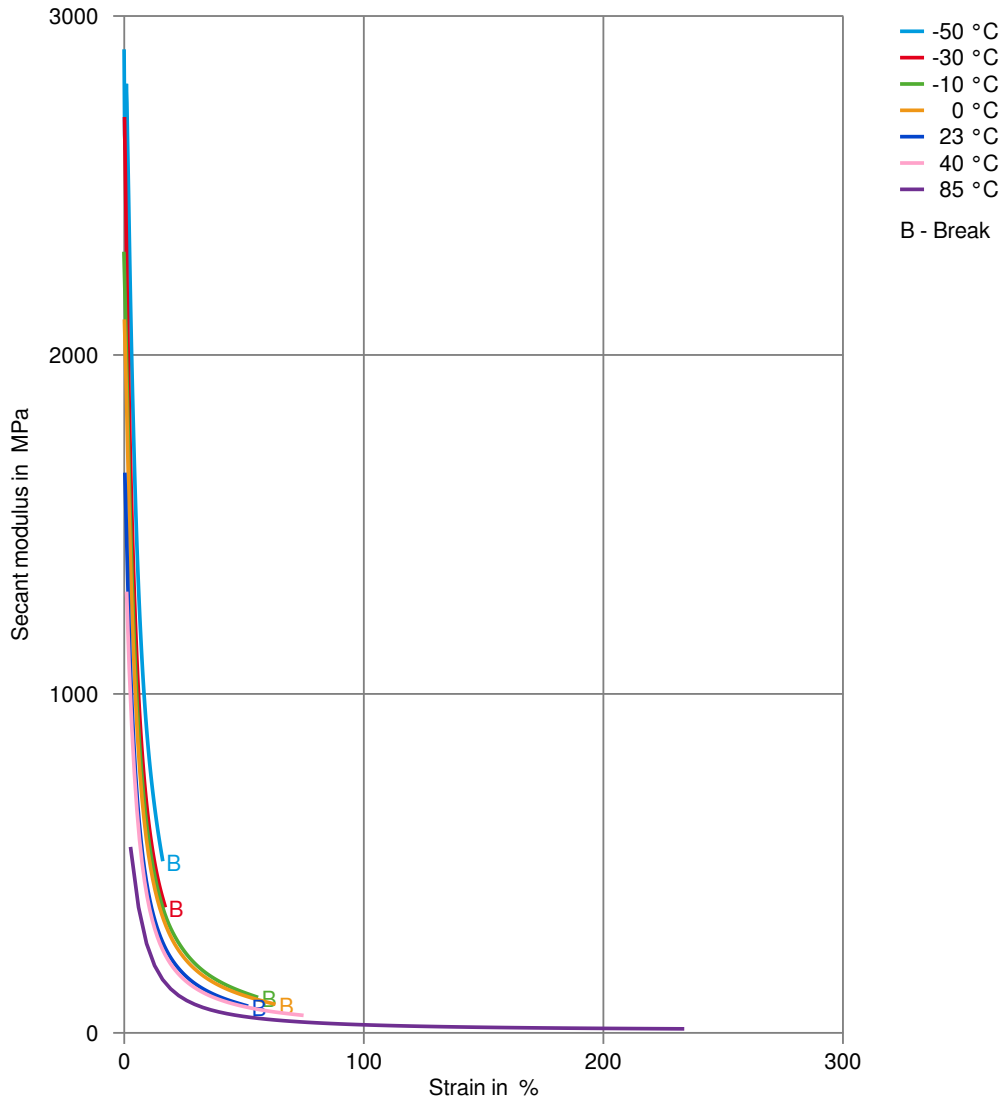
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Stress-strain



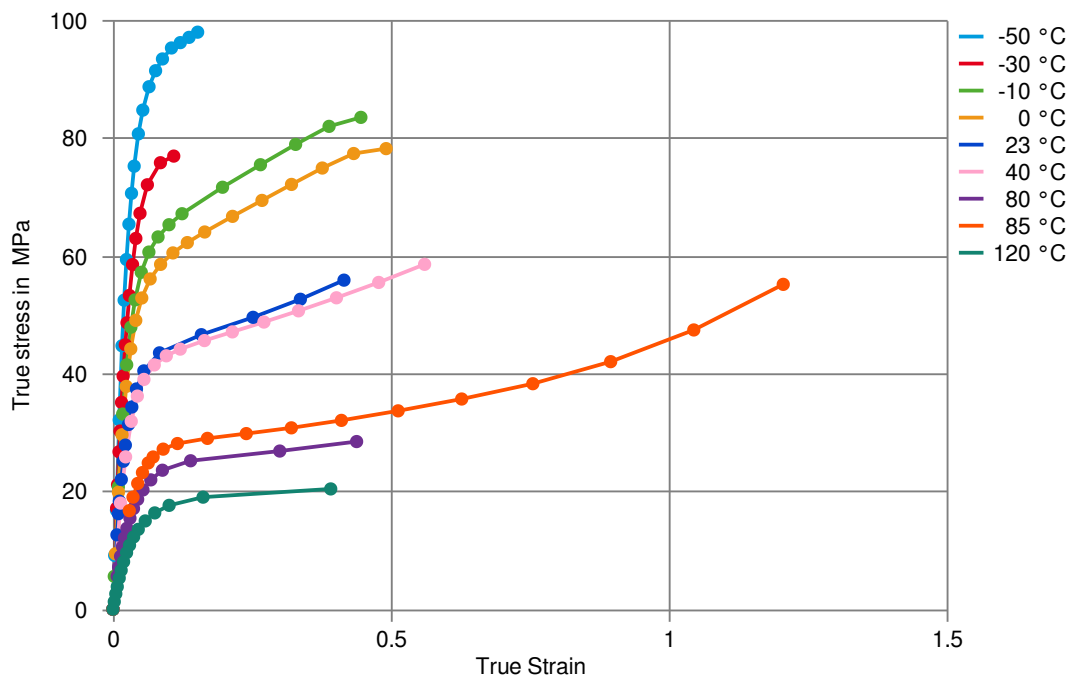
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Secant modulus-strain



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True stress-strain



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Processing Texts

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.

Other Approvals

Other Approvals

| OEM | Specification | Additional Information |
|------------------------|-------------------|------------------------|
| Changan | MTS-F01-02-001-A3 | 2019 |
| Stellantis - Chrysler | CPN 3379 | CANOD |
| Stellantis - Chrysler | CPN 5237 | Black |
| Stellantis - FCA Group | POM 75.70 | |
| Ford | WSK-M4D618-A2 | |
| GM | GMW22P-POM-C2P2 | |
| Li Auto | Q/LiA5310020 | 2021 (V2) |
| Renault | | No spec listed |