

HOSTAFORM® S 9363

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Hostaform® acetal copolymer grade S 9363 is an impact modified grade for demanding applications. Hostaform® S 9363 provides good impact strength while improving modulus and weld line strength over standard impact modified grades. Chemical abbreviation according to ISO 1043-1: POM-HI

Product information

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

Rheological properties

| | | |
|------------------------------|----------------------------|-----------------|
| Melt volume-flow rate | 5.5 cm ³ /10min | ISO 1133 |
| Temperature | 190 °C | |
| Load | 2.16 kg | |
| Moulding shrinkage, parallel | 1.8 % | ISO 294-4, 2577 |
| Moulding shrinkage, normal | 1.6 % | ISO 294-4, 2577 |

Typical mechanical properties

| | | |
|---------------------------------------|------------------------|--------------|
| Tensile modulus | 2000 MPa | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 50 MPa | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 12 % | ISO 527-1/-2 |
| Flexural modulus | 2000 MPa | ISO 178 |
| Charpy impact strength, 23°C | N kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 13 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 8 kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 13 kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C | 10.0 kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -40°C | 8.0 kJ/m ² | ISO 180/1A |
| Izod impact strength, 23°C | N kJ/m ² | ISO 180/1U |
| Hardness, Rockwell, M-scale | 65 | ISO 2039-2 |
| Poisson's ratio | 0.41 | |

Thermal properties

| | | |
|--|-----------|----------------|
| Melting temperature, 10°C/min | 165 °C | ISO 11357-1/-3 |
| Temperature of deflection under load, 1.8 MPa | 84 °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 148 °C | ISO 75-1/-2 |
| Coefficient of linear thermal expansion (CLTE), parallel | 110 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 | 1380 kg/m ³ | ISO 1183 |

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Injection

| | |
|---------------------------------|--------------|
| Drying Recommended | no |
| Drying Temperature | 100 °C |
| Drying Time, Dehumidified Dryer | 3 - 4 h |
| Processing Moisture Content | ≤0.2 % |
| Melt Temperature Optimum | 195 °C |
| Min. melt temperature | 180 °C |
| Max. melt temperature | 210 °C |
| Screw tangential speed | ≤0.3 m/s |
| Mold Temperature Optimum | 65 °C |
| Min. mould temperature | 60 °C |
| Max. mould temperature | 70 °C |
| Hold pressure range | 60 - 120 MPa |
| Back pressure | 2 MPa |
| Ejection temperature | 129 °C |

Characteristics

| | |
|-------------------------|--------------------------------|
| Processing | Injection Moulding, Extrusion |
| Delivery form | Pellets |
| Additives | Release agent |
| Special characteristics | High impact or impact modified |

Additional information

Processing Notes

Pre-Drying

Drying is not normally required. If material has contacted moisture through improper storage and handling or through regrind use, dry to prevent splay and odor problems.

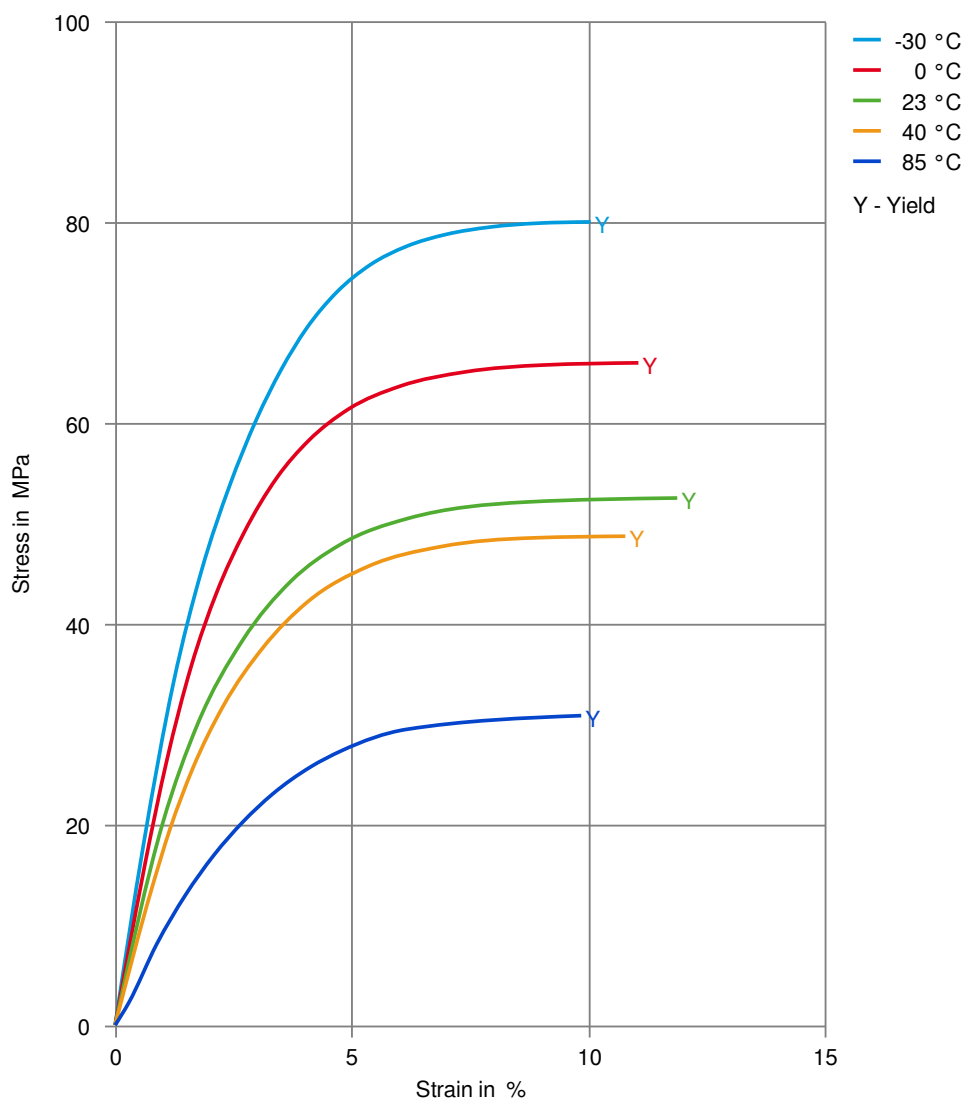
Automotive

| OEM | STANDARD | ADDITIONAL INFORMATION |
|-----------------------|---------------------|------------------------|
| Changan | MTS-F01-02-001-A3 | 2019 |
| Ford | WSF-M4D618-A | |
| General Motors | GMW22P-POM-C2P1 | Natural |
| Li Auto | Q/LiA5310020 | 2021 (V2) |
| Renault | No spec listed | |
| Stellantis - Chrysler | MS.50095 / CPN-2726 | Black |
| Stellantis - Chrysler | MS.50095 / CPN-2940 | Natural |

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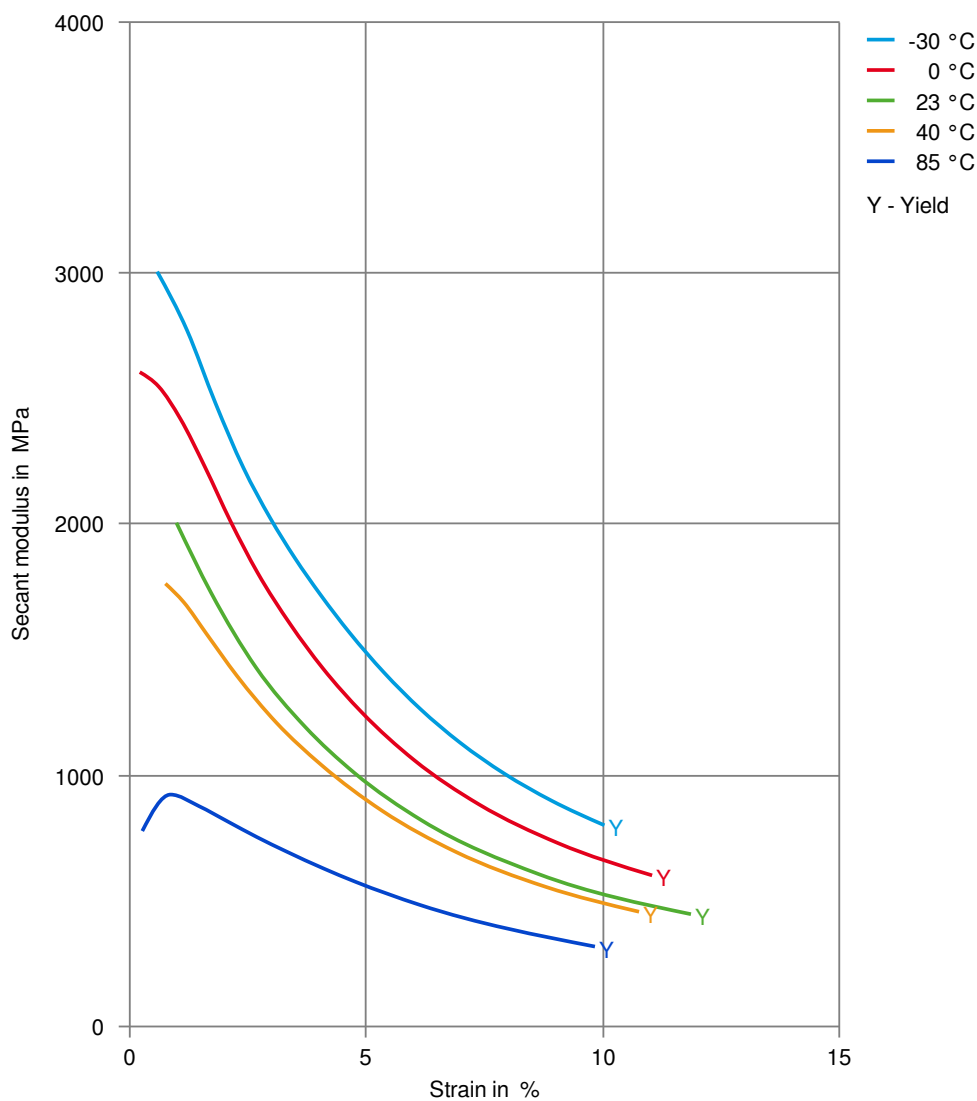
Stress-strain



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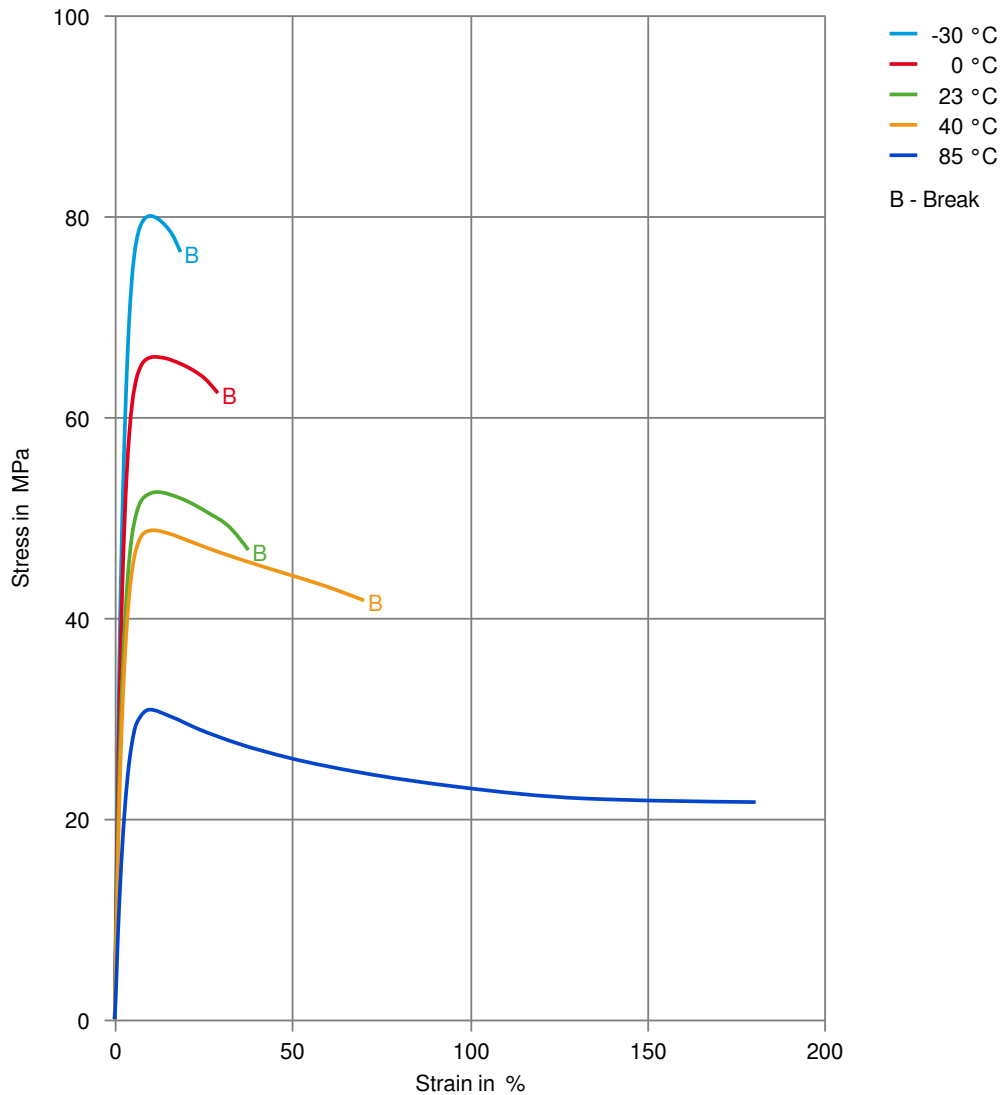
Secant modulus-strain



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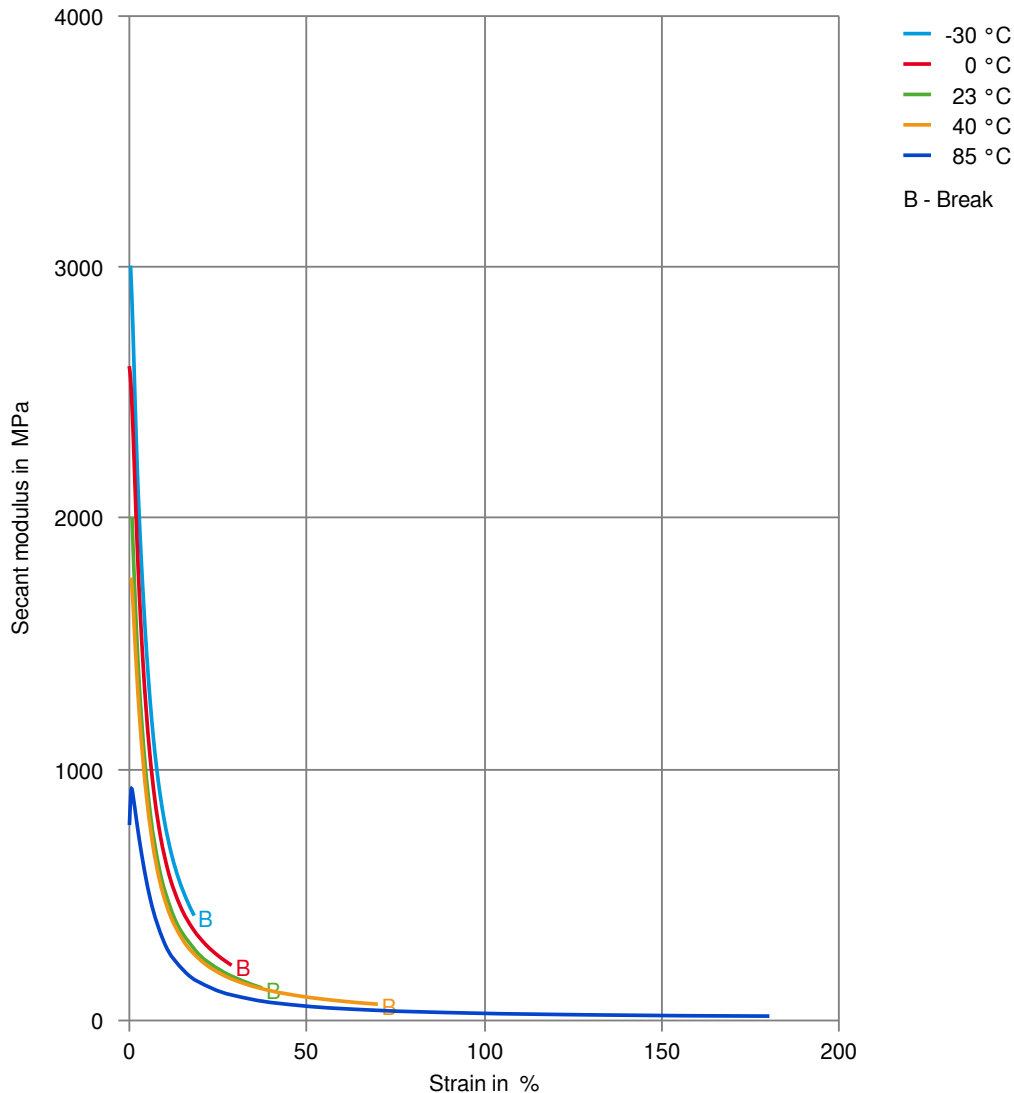
Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min



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