# HOSTAFORM® C 9021 FCT1

## HOSTAFORM®

This tribological modified grade has a good combination of mechanical properties and tribological properties. The mechanical properties are comparable to Hostaform® C 9021, especially the good weld line strength. This grade is FDA compliant for food contact applications.

## Product information

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

## Rheological properties

| | | | |
|---|---|---|---|
| Melt volume-flow rate | 8.5 | $cm^3$/10min | ISO 1133 |
| Temperature | 374 | °F | |
| Load | 4.76 | lb | |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 406000 | psi | ISO 527-1/-2 |
| Tensile stress at yield, 50mm/min | 9100 | psi | ISO 527-1/-2 |
| Tensile strain at yield, 50mm/min | 9 | % | ISO 527-1/-2 |
| Nominal strain at break | 30 | % | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C | 3.57 | ftlb/$in^2$ | ISO 179/1eA |

## Thermal properties

| | | | |
|---|---|---|---|
| Melting temperature, 10°C/min | 331 | °F | ISO 11357-1/-3 |

## Physical/Other properties

| | | | |
|---|---|---|---|
| Density | 0.0505 | lb/$in^3$ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | no | |
| Drying Temperature | 212 | °F |
| Drying Time, Dehumidified Dryer | 3 - 4 | h |
| Processing Moisture Content | ≤0.2 | % |
| Melt Temperature Optimum | 392 | °F |
| Min. melt temperature | 374 | °F |
| Max. melt temperature | 410 | °F |
| Max. screw tangential speed | ≤0.3 | m/s |
| Mold Temperature Optimum | 212 | °F |
| Min. mold temperature | 176 | °F |
| Max. mold temperature | 248 | °F |
| Hold pressure range | 8700 - 17400 | psi |
| Hold Pressure Time<br>(h is the max. wall thickness of the part in mm) | $2h^2$-3 | s |
| Ejection temperature | 273 | °F |



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## Characteristics

| | |
|---|---|
| Processing | Injection Molding |
| Additives | Release agent |
| Special characteristics | Low wear / Low friction |

## Additional information

Injection molding

### Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

### Processing

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

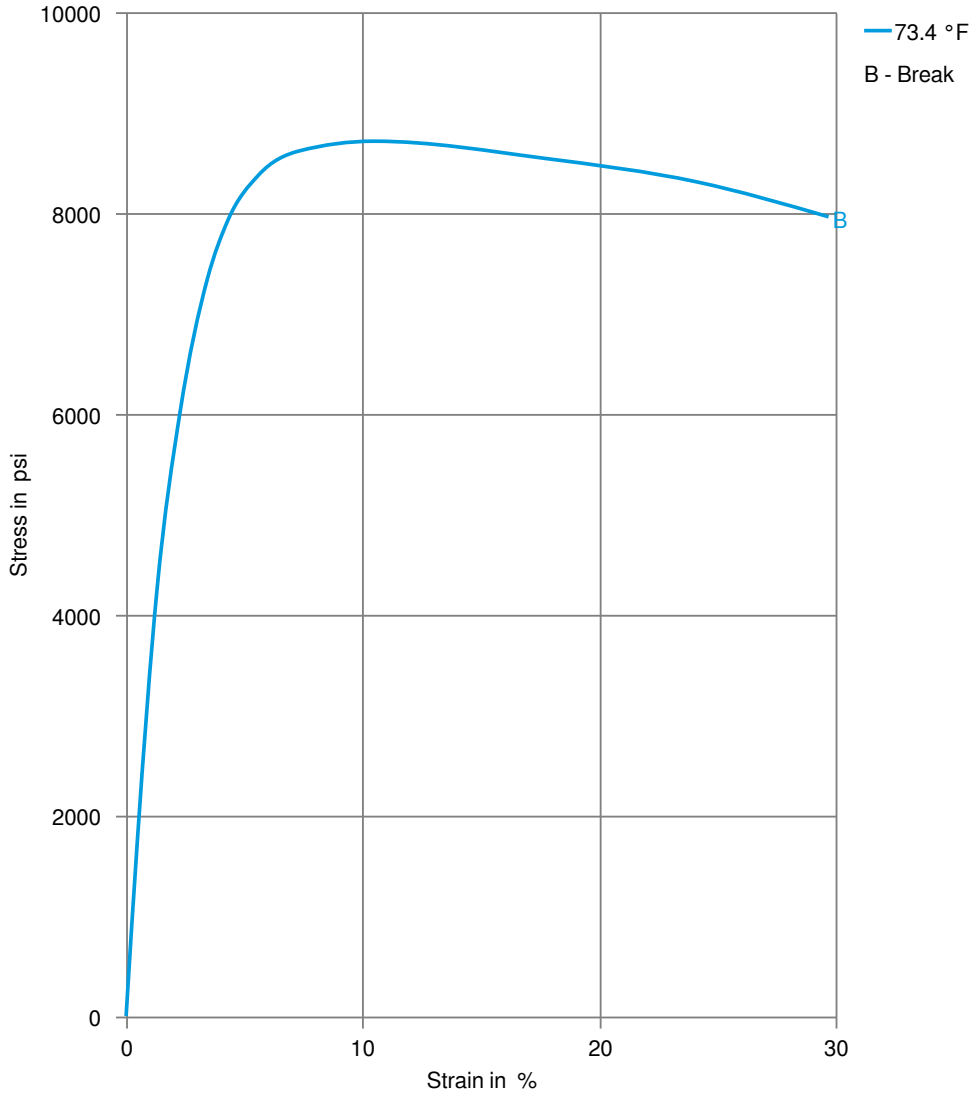
### Postprocessing

Conditioning e.g. moisturizing is not necessary.

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## Stress-strain



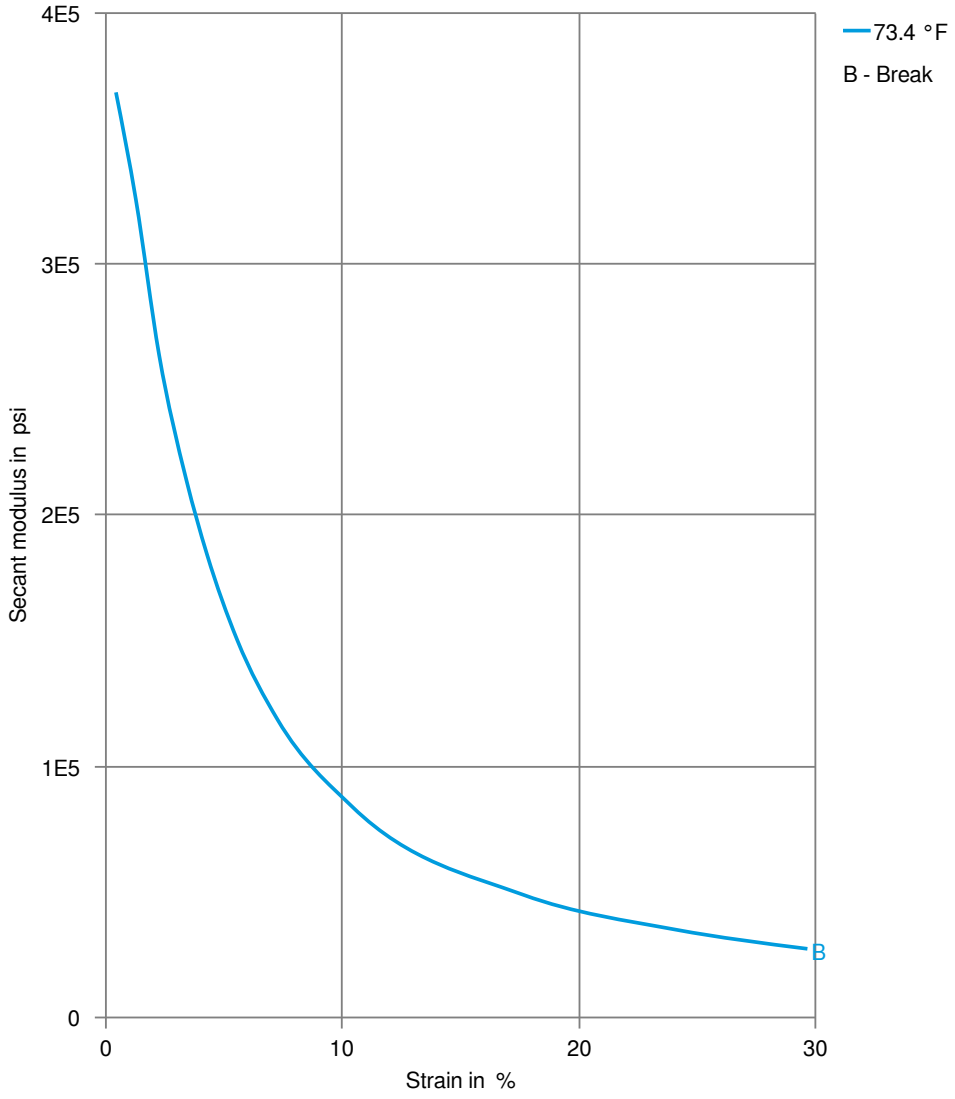



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## Secant modulus-strain






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