

# HOSTAFORM® MT®8R02

Improved slip grade with good flow for medical technology applications.

Hostaform® MT®8R02 is an improved wear performance grade targeted at injection molding grade with a molecular weight for excellent moldability and optimum properties in demanding applications.

Hostaform® MT®8R02 is a special grade developed for medical industry applications and complies with:

- CFR 21 (177.2470) of the Food and Drug Administration (FDA) and is listed in the Drug Master File (DMF 11559) and the Device Master File (MAF 1079)
- the corresponding EU and national registry regulatory requirements
- biocompatibility in tests corresponding to USP <88> Class VI/ISO 10993
- low residual monomers
- no animal-derived constituents

## Rheological properties

Melt volume-flow rate	8.5 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

## Typical mechanical properties

Tensile Modulus	2700 MPa	ISO 527-1/-2
Yield stress, 50mm/min	62 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	30 %	ISO 527-1/-2
Charpy notched impact strength, 23°C	8 kJ/m <sup>2</sup>	ISO 179/1eA

## Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	82 °C	ISO 75-1/-2

## Other properties

Density	1400 kg/m <sup>3</sup>	ISO 1183
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## Injection

Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3 - 4 h	
Melt Temperature Optimum	190 °C	Internal
Max. mould temperature	80 - 120 °C	
Back pressure	4 MPa	
Injection speed	slow-medium	

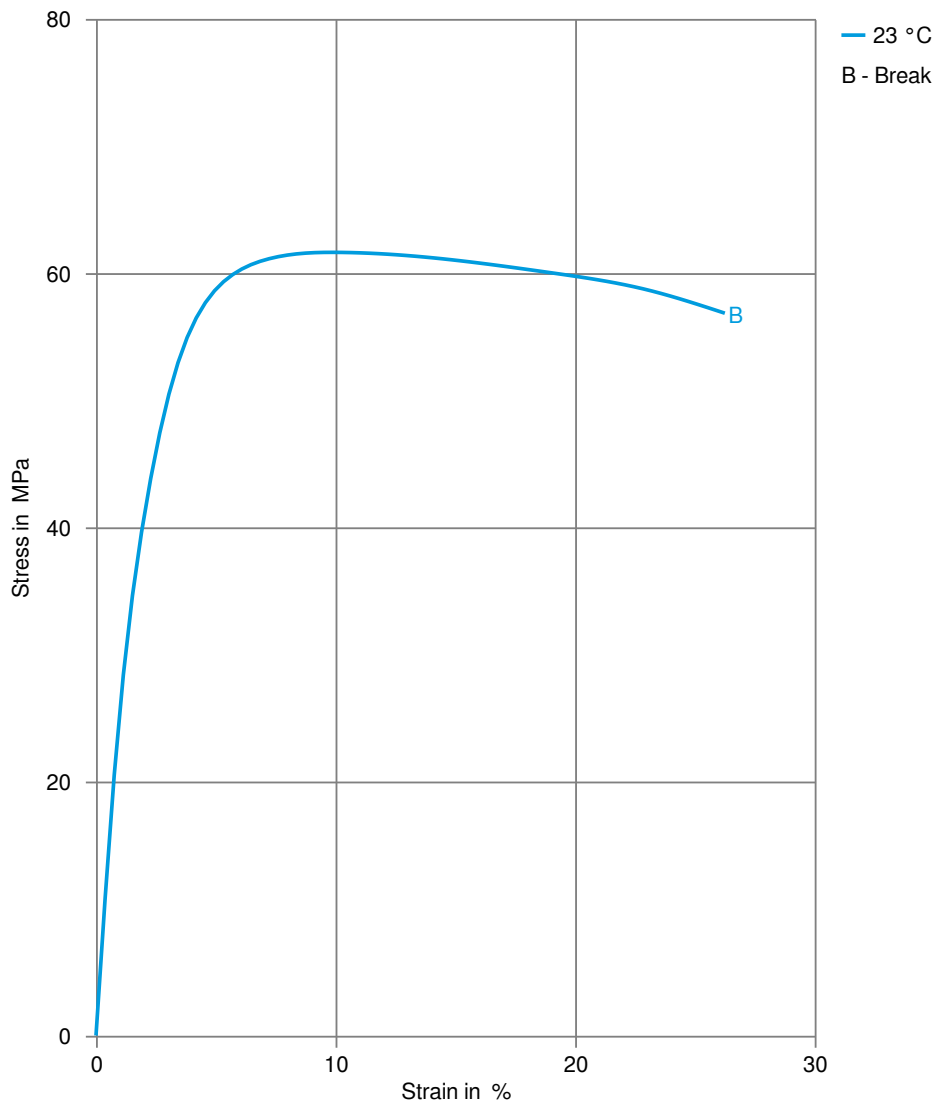
# HOSTAFORM® MT® 8R02

## Characteristics

Additives

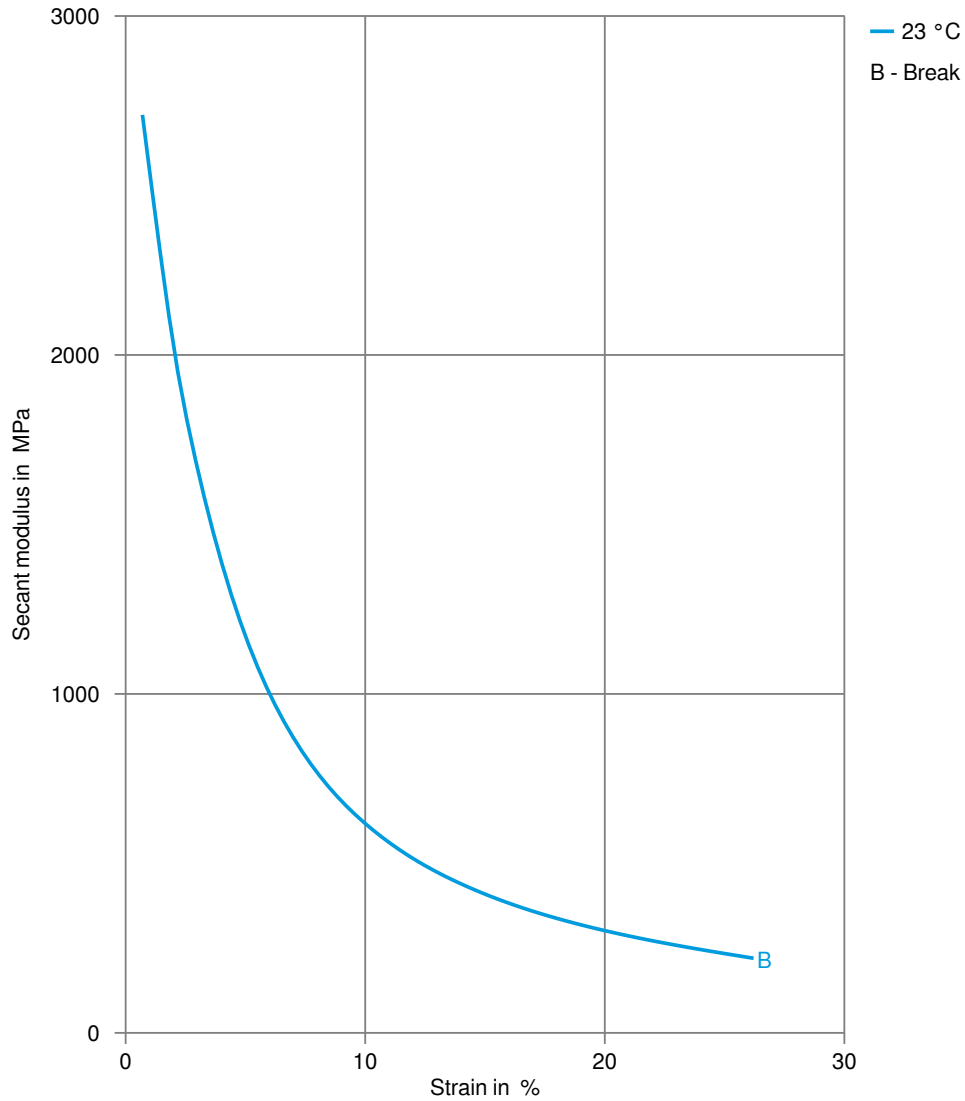
Release agent

## Stress-strain



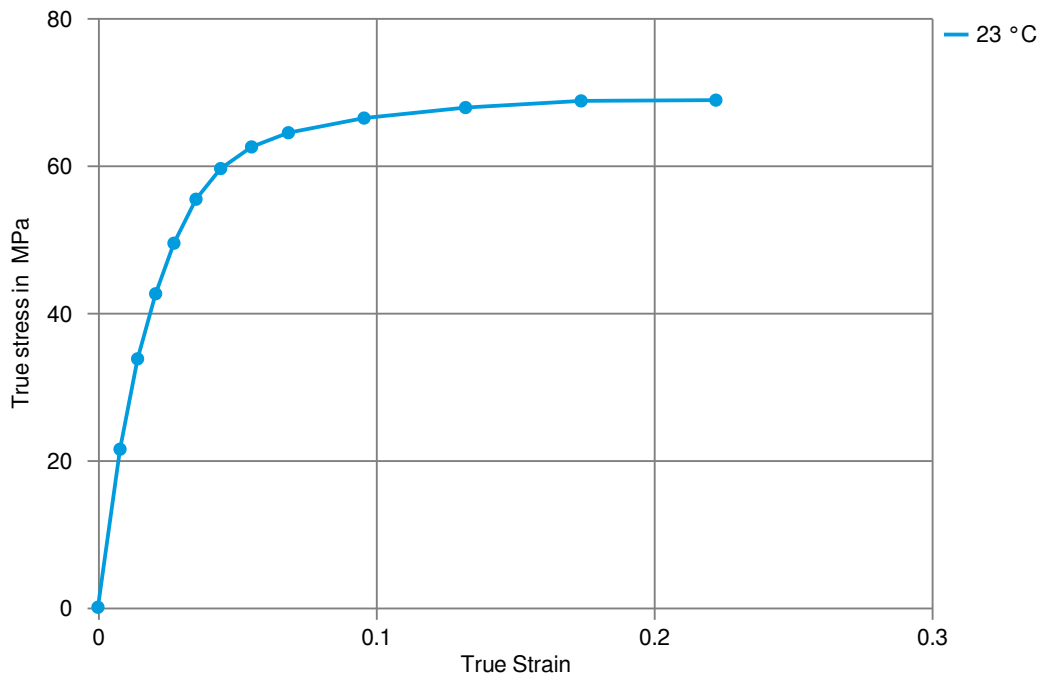
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## Secant modulus-strain



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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, drying may be necessary to prevent splay and odor problems.