

HOSTAFORM® MT®24F01

Low level PTFE filled product with high flow for use in medical technology applications

Hostaform® MT®24F01 is a low level polytetrafluoroethylene filled (PTFE) product designed for use in wear applications against plastics, metal, glass or ceramic mating surfaces where silicone lubricants can not be tolerated.

Hostaform® MT®24F01 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	21 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

Typical mechanical properties

Tensile Modulus	2600 MPa	ISO 527-1/-2
Yield stress, 50mm/min	58 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8 %	ISO 527-1/-2
Nominal strain at break	25 %	ISO 527-1/-2
Charpy impact strength, 23°C	80 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	145 MPa	ISO 2039-1

Thermal properties

Temp. of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	146 °C	ISO 306

Other properties

Density	1440 kg/m ³	ISO 1183
---------	------------------------	----------

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	2 MPa	
Injection speed	slow-medium	

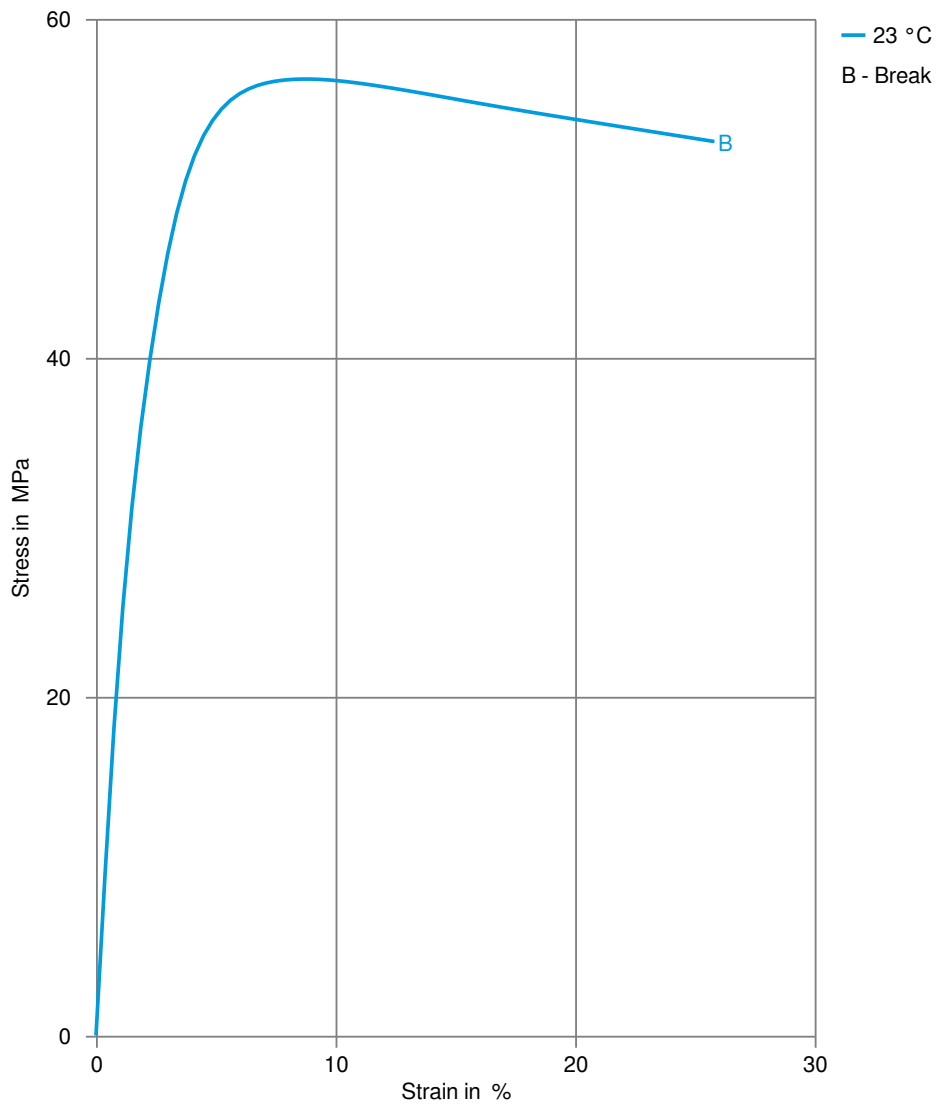
HOSTAFORM® MT®24F01

Characteristics

Additives

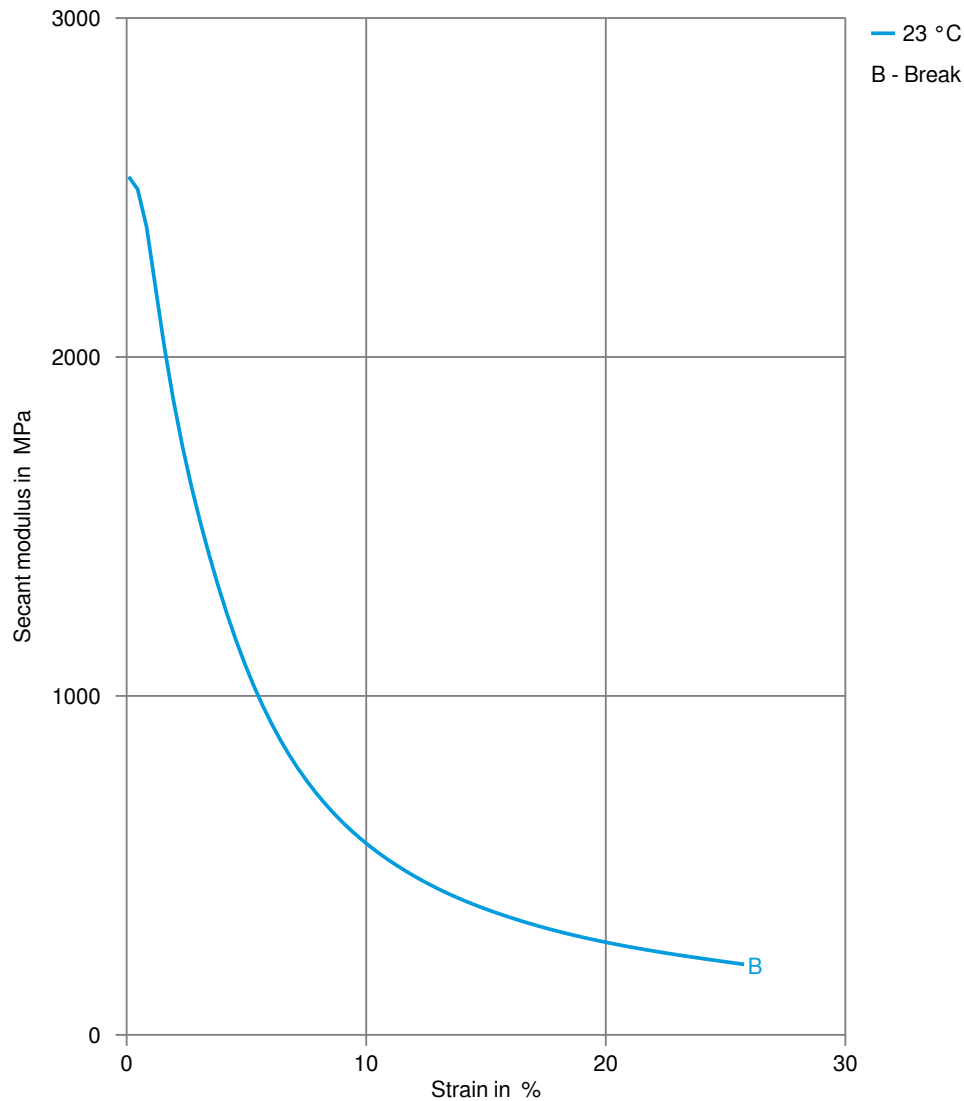
Release agent

Stress-strain



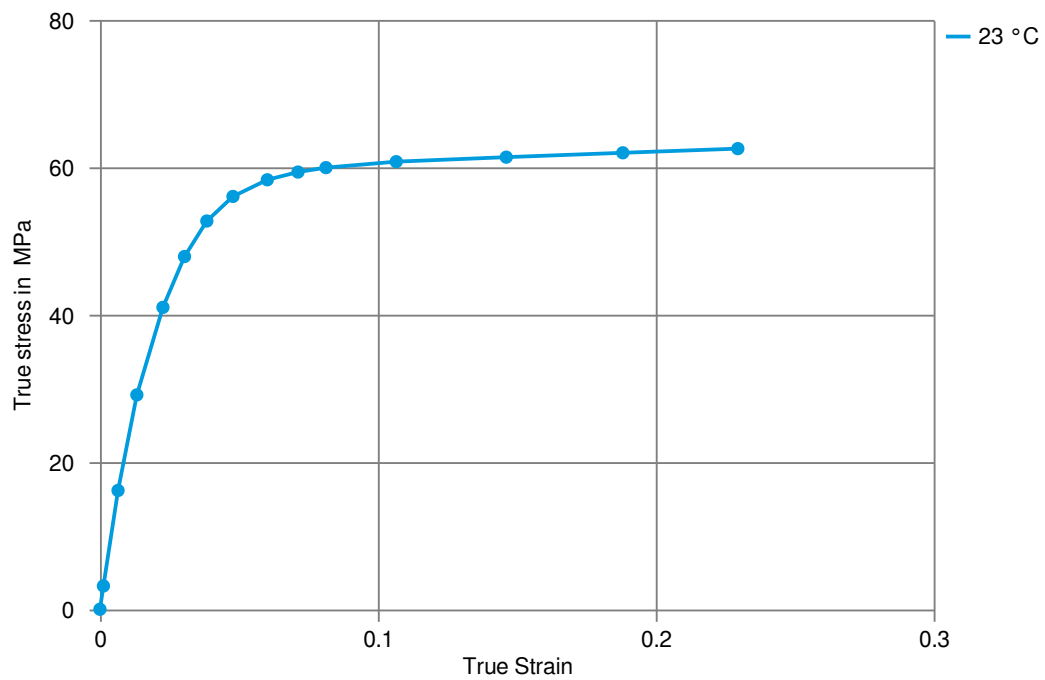
HOSTAFORM® MT®24F01

Secant modulus-strain



HOSTAFORM® MT®24F01

True stress-strain



HOSTAFORM® MT®24F01

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.