Celanese
The chemistry inside innovation™

HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

Hostaform® MT® SlideX® 1203 is a medium viscosity injection molding grade with tribological modification designed for use in demanding applications that require prevention of audible noise caused by stick-slip phenomenon and low friction and wear against plastics and metals.
Hostaform® MT® SlideX® 1203 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

Product information

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

Rheological properties

Melt volume-flow rate	13	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2650	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	58	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	12	%	ISO 527-1/-2
Nominal strain at break	45	%	ISO 527-1/-2
Flexural modulus	2500	MPa	ISO 178
Charpy impact strength, 23°C	160	kJ/m^2	ISO 179/1eU
Charpy impact strength, -30°C	150	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	6	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 358/30	138	MPa	ISO 2039-1
Poisson's ratio	0.38[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	93	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	130	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	130	E-6/K	ISO 11359-1/-2

Celanese
The chemistry inside innovation™

HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.6	%	Sim. to ISO 62
Density	1400	kg/m³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	200	°C
Min. melt temperature	190	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	80	°C
Max. mould temperature	120	°C
Hold pressure range	60 - 120	MPa
Back pressure	4	MPa
Ejection temperature	138	°C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	Low wear / Low friction

Additional information

Injection molding

Processing

See Processing Guide and Involve Celanese FTS support to obtain best quality parts

Processing Notes

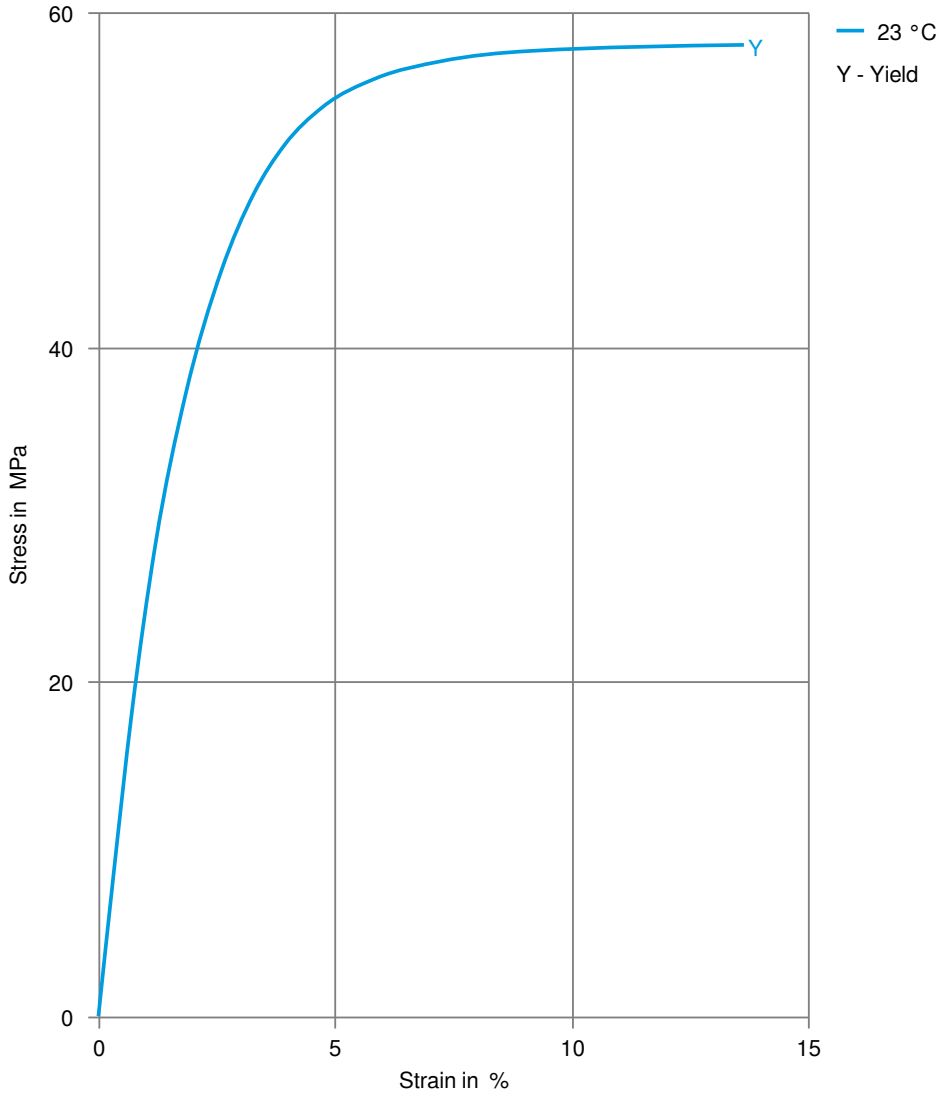
Pre-Drying

recommended

Celanese
The chemistry inside innovation™

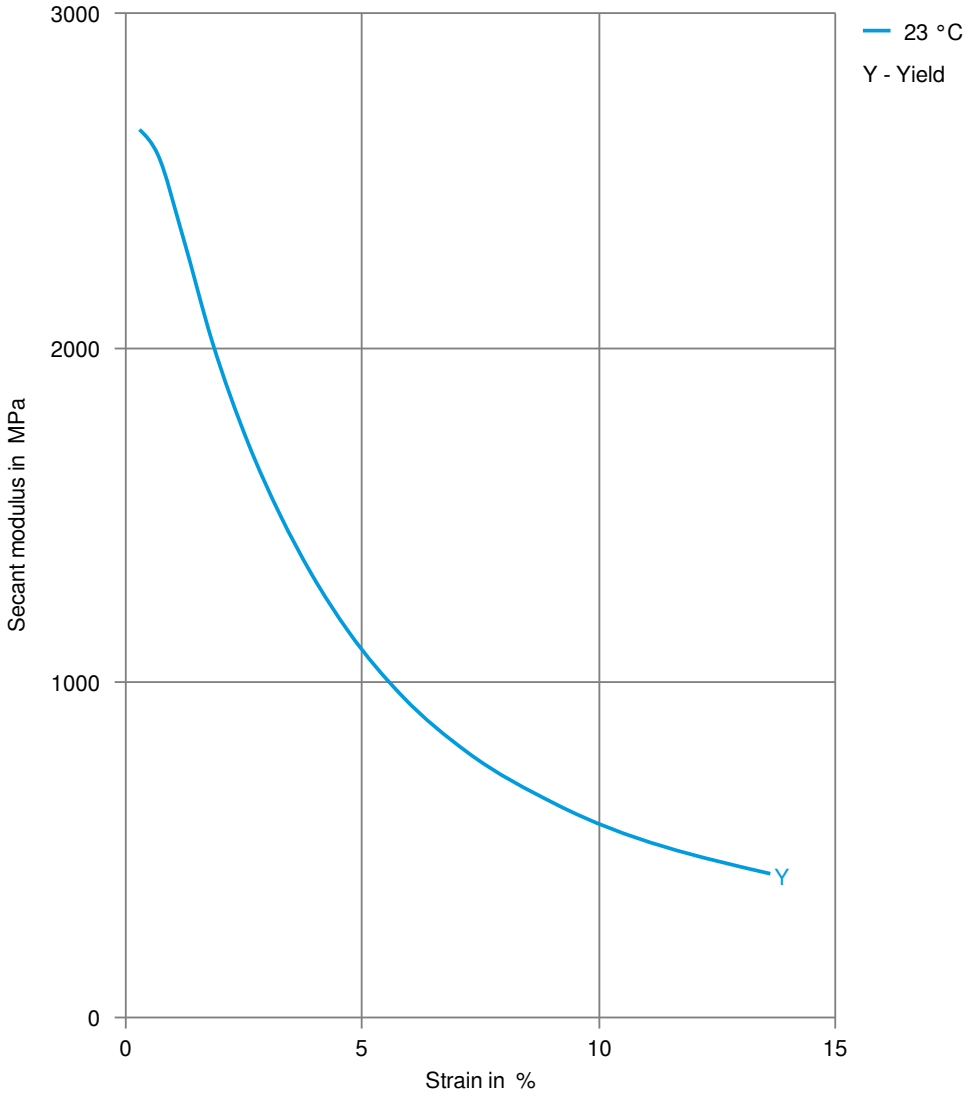
HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

Stress-strain



HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

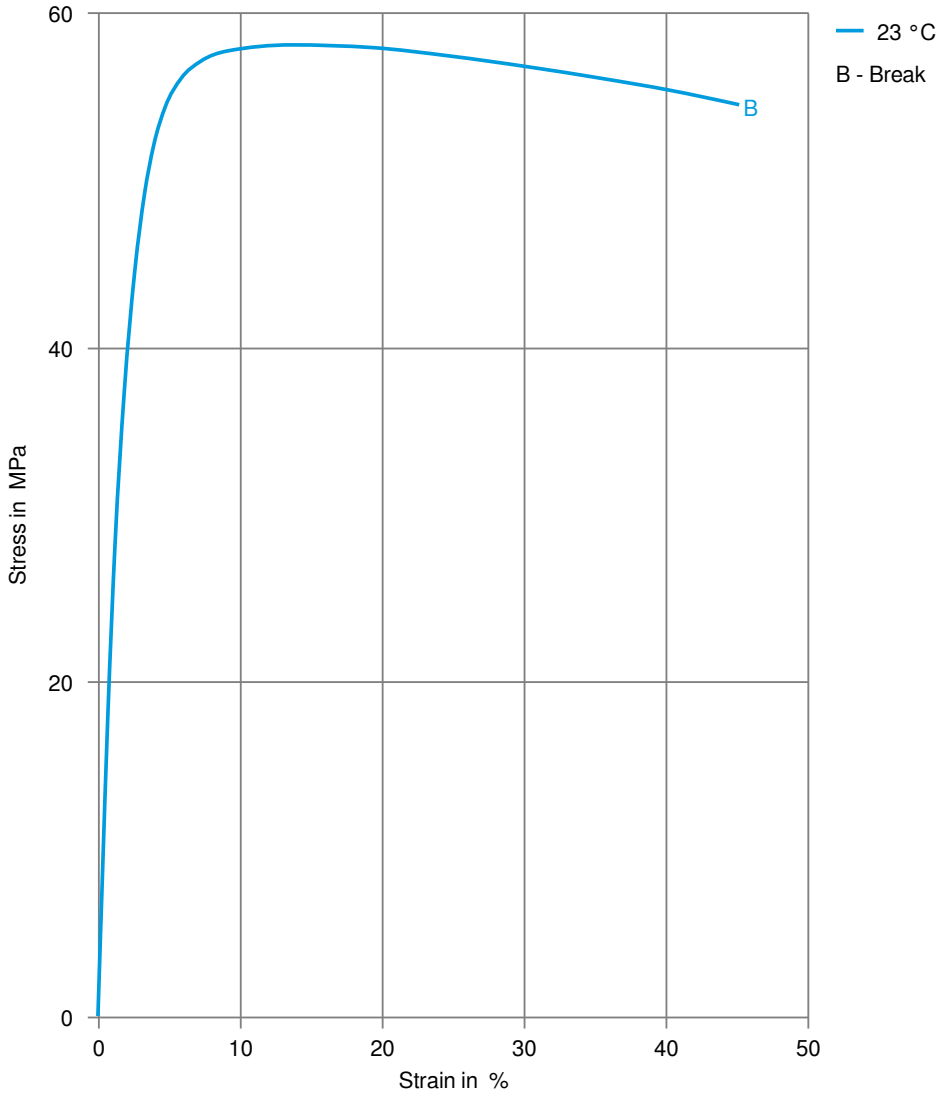
Secant modulus-strain



Celanese
The chemistry inside innovation™

HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

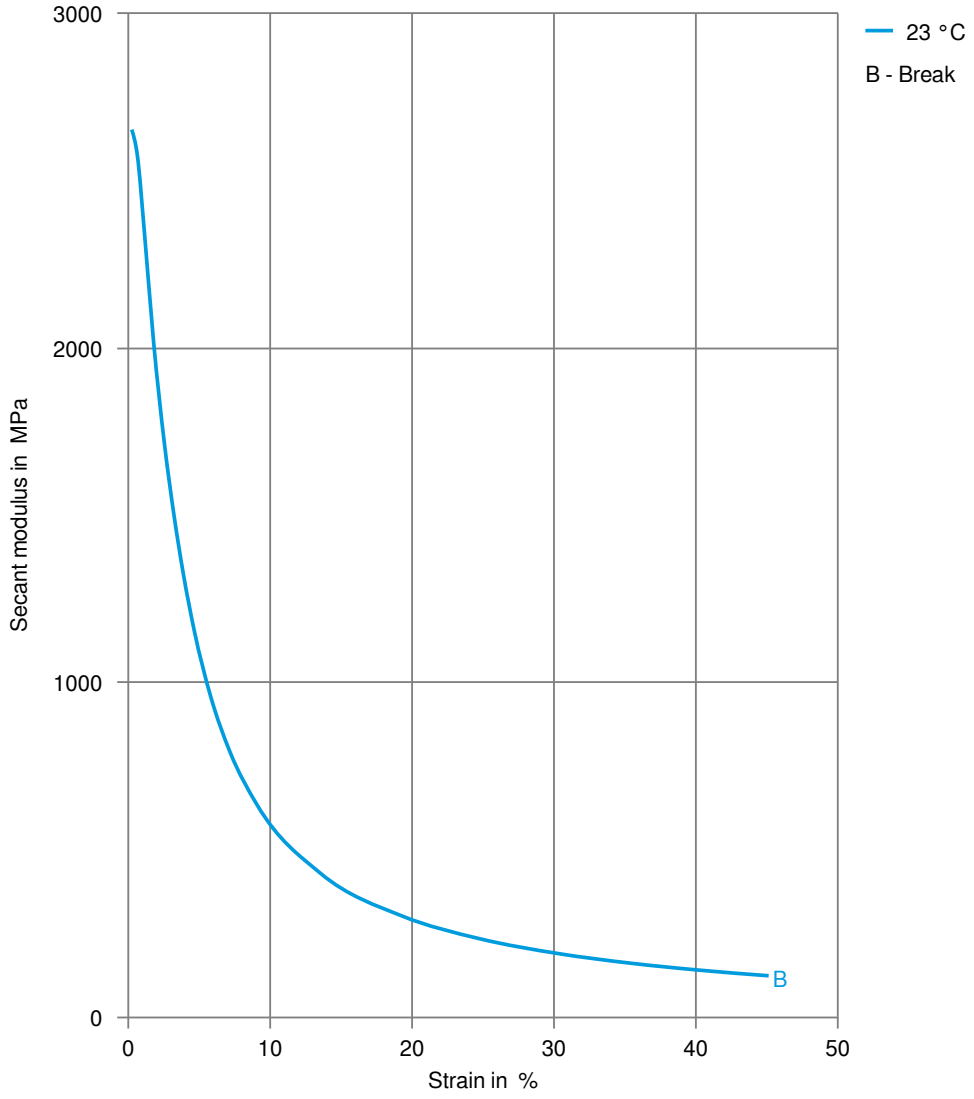
Stress-strain, 50mm/min



Celanese
The chemistry inside innovation™

HOSTAFORM® MT® SlideX® 1203
HOSTAFORM®

Secant modulus-strain, 50mm/min



Revised: 2024-12-03 Source: Celanese Materials Database