

#### Tribological modified

Hostaform® MT® SlideX® 2404 is a low melt viscosity injection molding grade for fast cycling and thin walled parts 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® 2404 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 Temperature Load	25 190 2.16		ISO 1133
Moulding shrinkage, parallel	1.9	-	ISO 294-4, 2577
Moulding shrinkage, normal	1.8		ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	2550	MPa	ISO 527-1/-2
Yield stress, 50mm/min	55	MPa	ISO 527-1/-2
Yield strain, 50mm/min	7	%	ISO 527-1/-2
Nominal strain at break	50	%	ISO 527-1/-2
Flexural Modulus	2300	MPa	ISO 178
Shear Modulus	923	MPa	ISO 6721
Charpy impact strength, 23°C	160	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5.5	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30	130	MPa	ISO 2039-1
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	90	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	144	°C	ISO 306
Coeff. of linear therm. expansion, parallel	140	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	140	E-6/K	ISO 11359-1/-2

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### Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.6 %	Sim. to ISO 62
Density	1400 kg/m <sup>3</sup>	ISO 1183

### Injection

Drying Temperature	100 - 120	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	0.15	%	
Melt Temperature Optimum	200	°C	Internal
Screw tangential speed	0.2 - 0.21	m/s	
Max. mould temperature	80 - 120	°C	
Back pressure	4	MPa	
Injection speed	slow-very slow		

#### Additional information

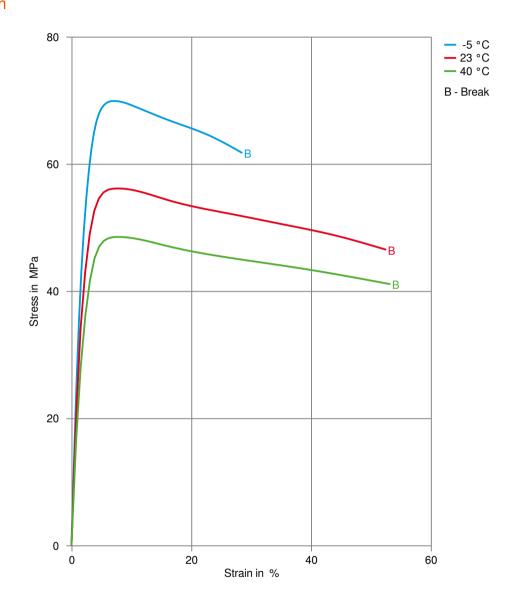
Injection molding

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

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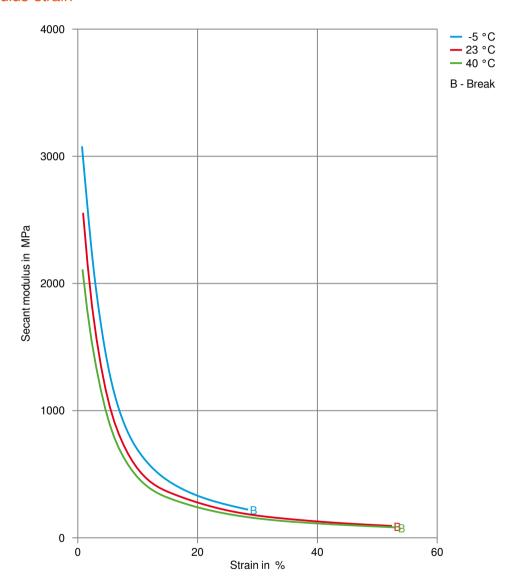
#### Stress-strain



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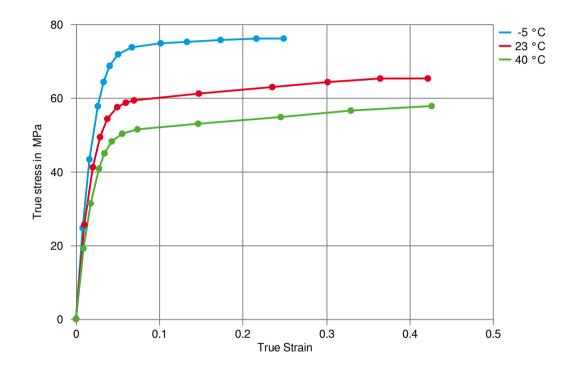
#### Secant modulus-strain



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#### True stress-strain



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#### **Processing Texts**

Pre-drying recommended

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

parts

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Revised: 2023-05-21 Source: Celanese Materials Database

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