Celanese
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HOSTAFORM® MT® SlideX® 2404 ECO-B
HOSTAFORM®

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

ECO-B: Hostaform ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

Product information

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

Rheological properties

Melt volume-flow rate	25	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
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
Tensile stress at yield, 50mm/min	55	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	7	%	ISO 527-1/-2
Nominal strain at break	50	%	ISO 527-1/-2
Flexural modulus	2300	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	5.5	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	5.5	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 358/30	130	MPa	ISO 2039-1
Poisson's ratio	0.38[C]		

[C]: Calculated

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Thermal properties

Melting temperature, 10 °C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	90	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	140	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	140	E-6/K	ISO 11359-1/-2

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	195	°C
Min. melt temperature	180	°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

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	Low wear / Low friction, High Flow
Sustainability	Bio-Content

Additional information

Injection molding

Processing

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

Processing Notes

Pre-Drying

recommended

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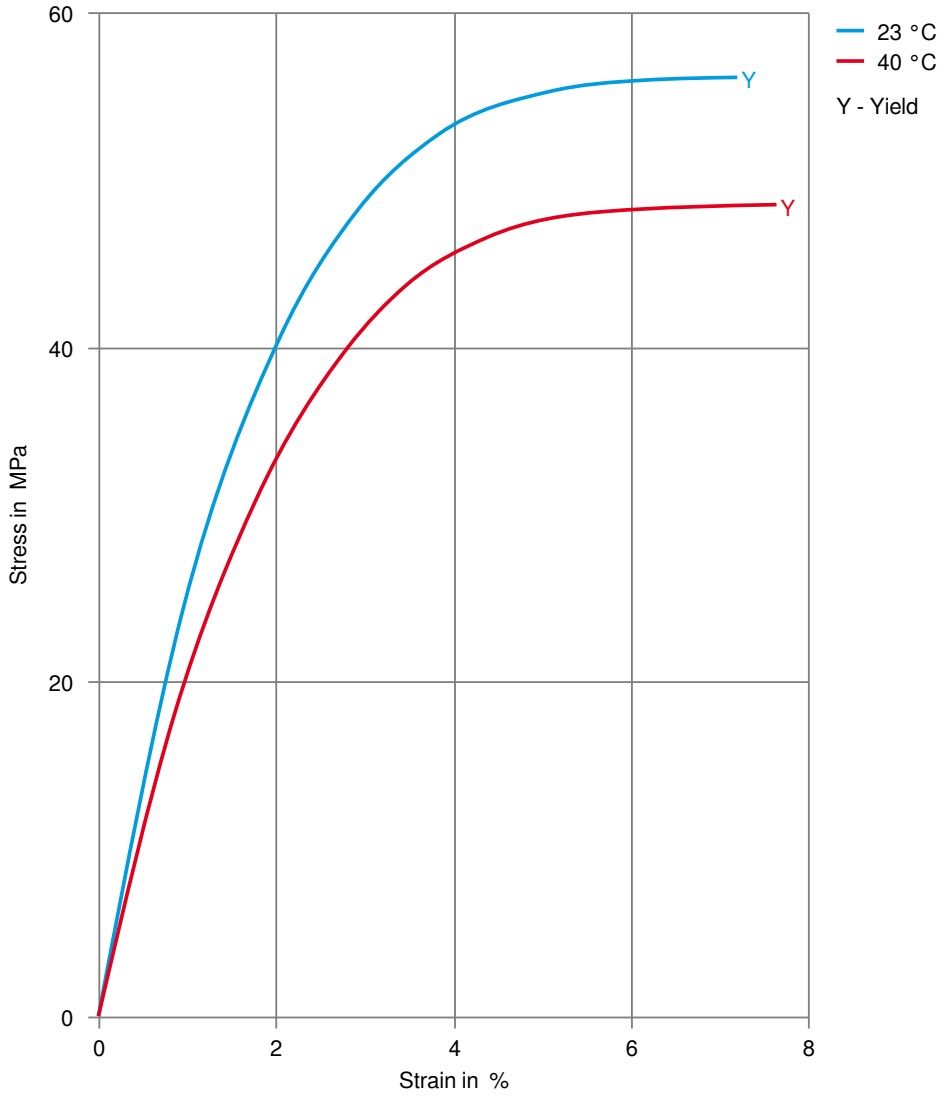
Stress-strain



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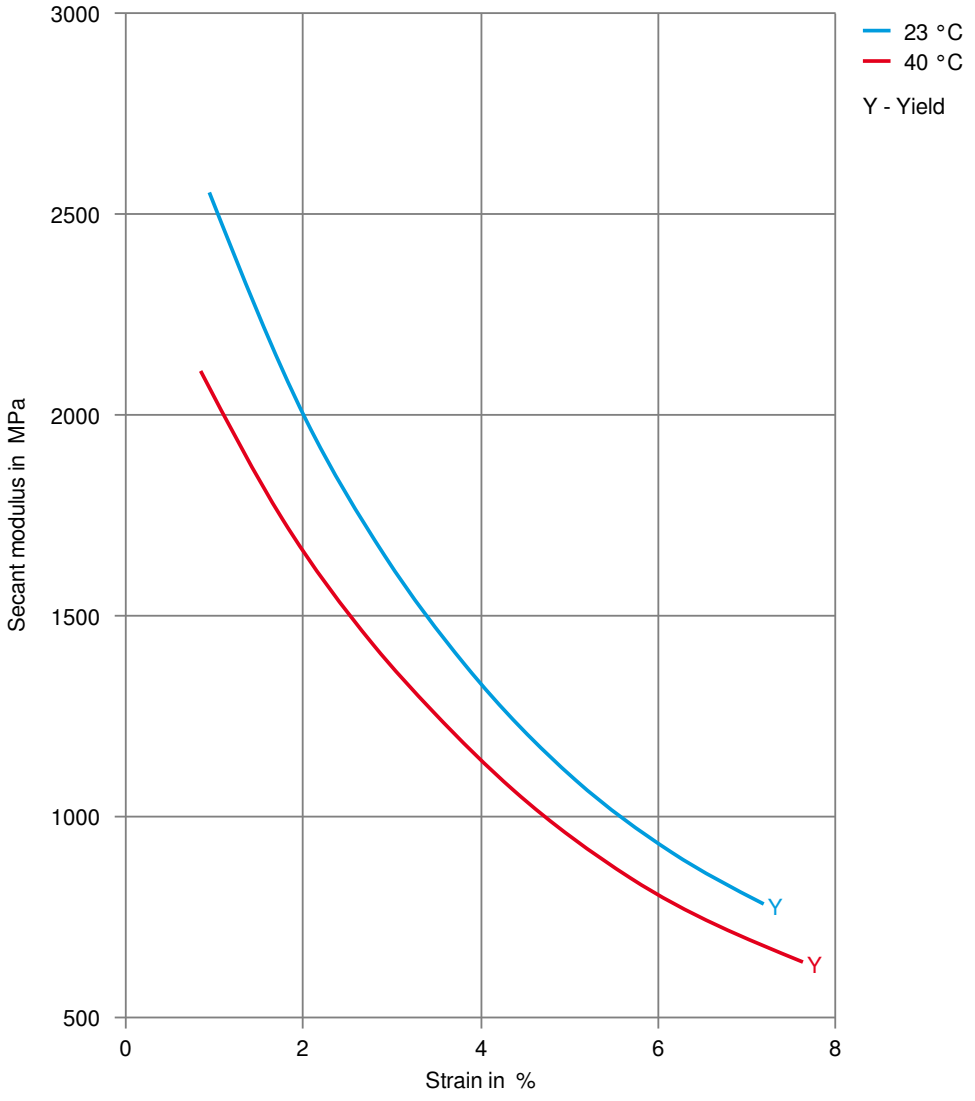
Secant modulus-strain



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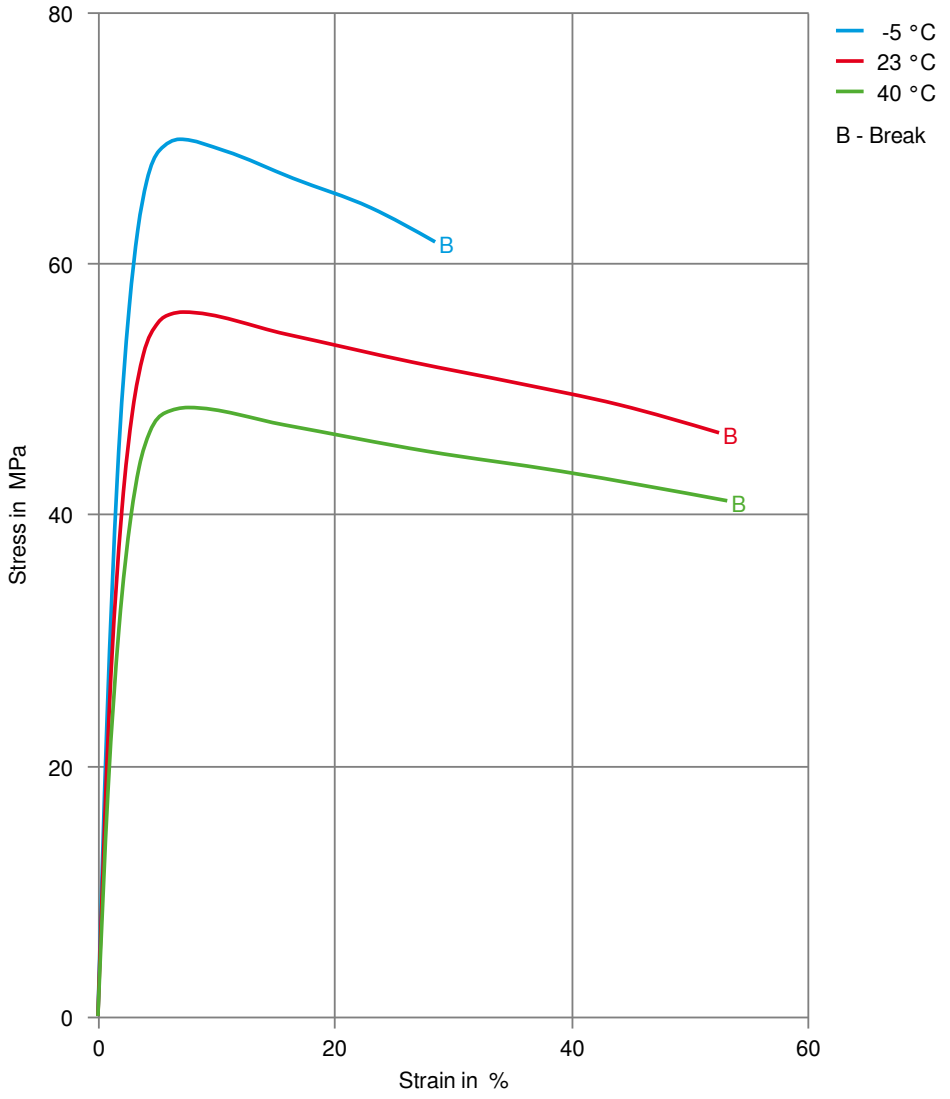
Stress-strain, 50mm/min



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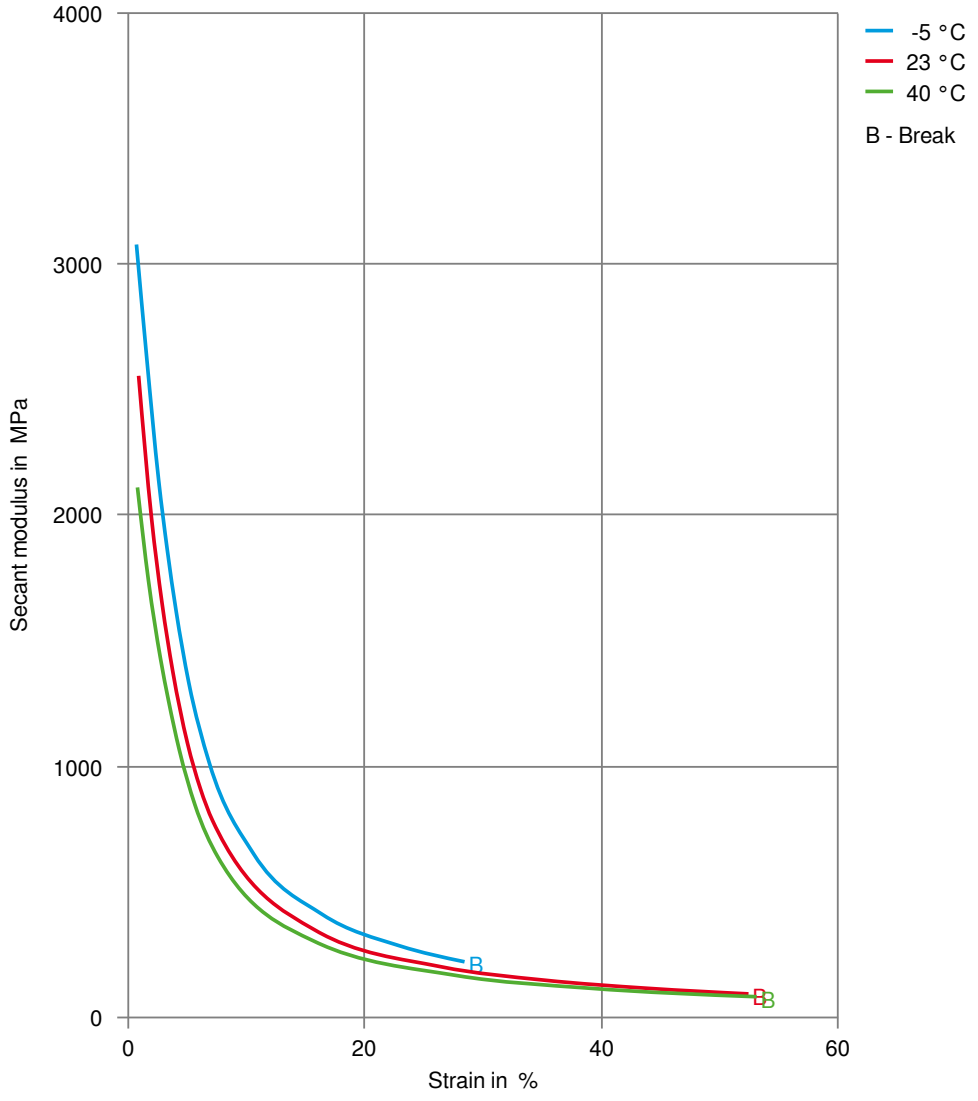
Secant modulus-strain, 50mm/min



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