HOSTAFORM® MT® SlideX® 2404 ECO-C 872
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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)
- biocompatibility in tests corresponding to USP < 88> Class VI/ISO 10993
- low residual monomers
- no animal-derived constituents

Hostaform® MT® SlideX® 2404 ECO-C 872 NATURAL incorporates a minimum of 80% circular content derived from captured carbon dioxide emissions by weight in the finished product through mass balance allocation. The product is a drop-in replacement to the standard grade with the same performance and processing properties and contributes to the displacement of virgin fossil fuel resources. The feedstock utilizing captured carbon dioxide emissions are ISCC CFC certified as low carbon intensity methanol.

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	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	370000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8000	psi	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	334000	psi	ISO 178
Charpy impact strength, 23°C	76.1	ftlb/in^2	ISO 179/1eU
Charpy impact strength, -30°C	71.4	ftlb/in^2	ISO 179/1eU
Charpy notched impact strength, 23°C	2.62	ftlb/in^2	ISO 179/1eA
Charpy notched impact strength, -30°C	2.62	ftlb/in^2	ISO 179/1eA
Hardness, Rockwell, M-scale	80		ISO 2039-2
Ball indentation hardness, H 358/30	18900	psi	ISO 2039-1

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Thermal properties

Melting temperature, 10 °C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	194	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.78	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.778	E-4/°F	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	0.0505	lb/in³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	383	°F
Min. melt temperature	356	°F
Max. melt temperature	410	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	2h²-3	s
Back pressure	580	psi

Characteristics

Processing	Injection Molding
Special characteristics	Low wear / Low friction, High Flow
Sustainability	Carbon Capture

Additional information

Injection molding

Processing

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

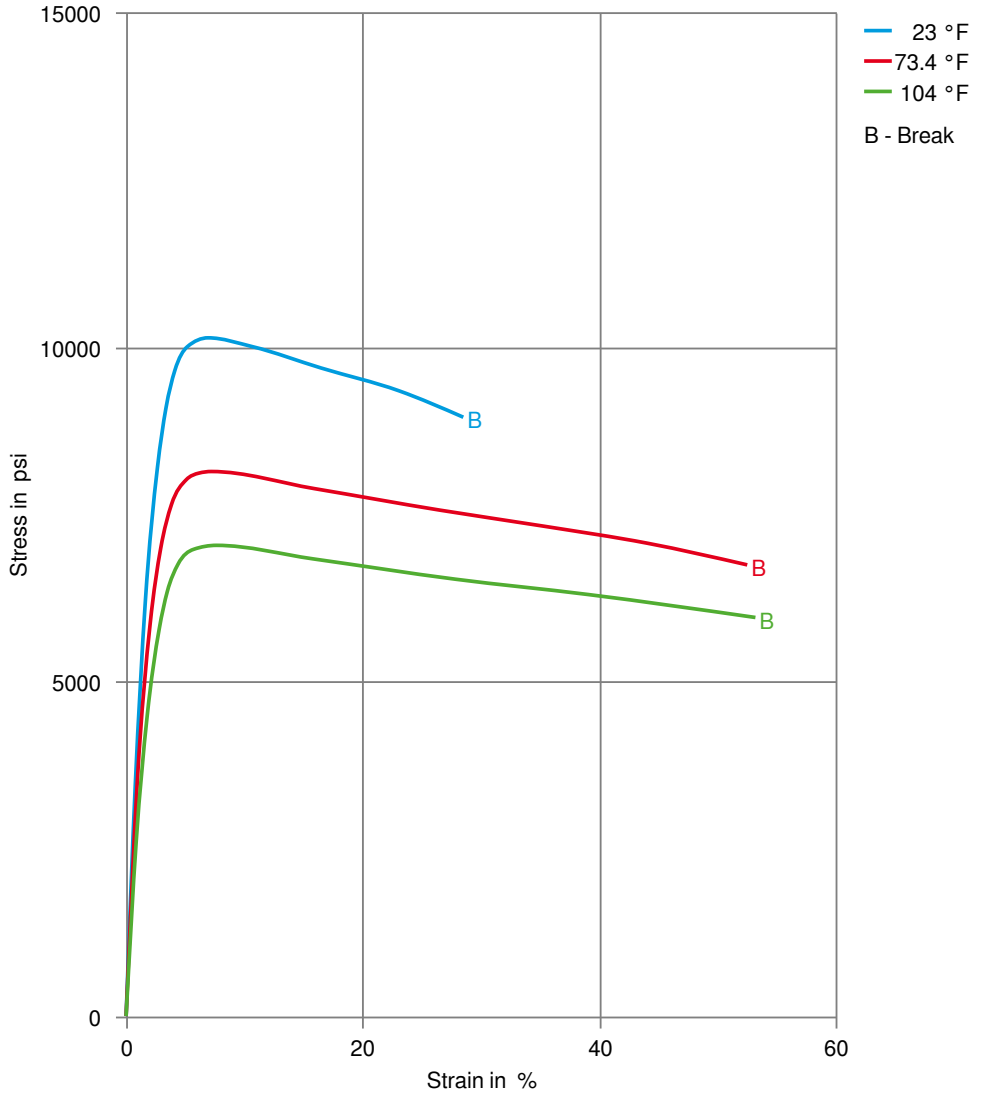
Processing Notes

Pre-Drying

recommended

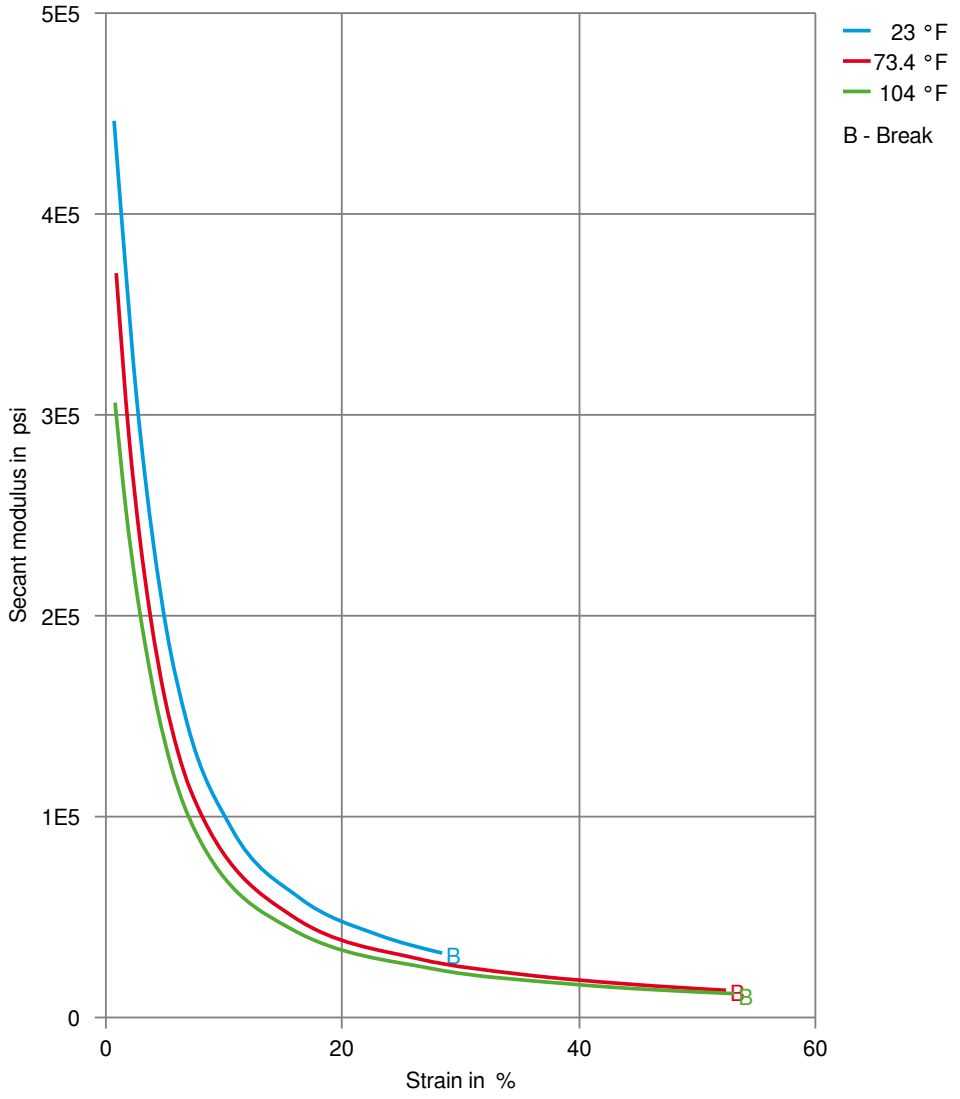
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Stress-strain



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Secant modulus-strain



Revised: 2026-08-04 Source: Celanese Materials Database

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