

UV detectable grade with good flow for medical technology applications Hostaform® MT®8U05 is an injection molding grade with a molecular weight for excellent moldability and optimum properties in demanding applications. The material can be identified by UV detectors.

Hostaform® MT®8U05 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	8 190	cm ³ /10min	ISO 1133
Temperature Load	2.16	-	
Moulding shrinkage, parallel	2.10	•	ISO 294-4, 2577
Moulding shrinkage, normal	2.0		ISO 294-4, 2577
Modialing shirinkage, normai	1.0	70	130 294-4, 2377
Typical mechanical properties			
Tensile Modulus	2850	MPa	ISO 527-1/-2
Yield stress, 50mm/min	64	MPa	ISO 527-1/-2
Yield strain, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural Modulus	2700	MPa	ISO 178
Shear Modulus	990	MPa	ISO 6721
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C	220 ^[P]	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	6	kJ/m²	ISO 179/1eA
[P]: Partial Break			
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	104		ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	150		ISO 306
Coeff. of linear therm. expansion, parallel		E-6/K	ISO 11359-1/-2
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Other properties

Humidity absorption, 2mm Water absorption, 2mm Density	0.2 0.65 1410		Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection			
Drying Temperature Drying Time, Dehumidified Dryer	100 - 120 3 - 4	-	
Processing Moisture Content	0.15		
Melt Temperature Optimum	200	°C	Internal
Max. mould temperature	80 - 120	°C	

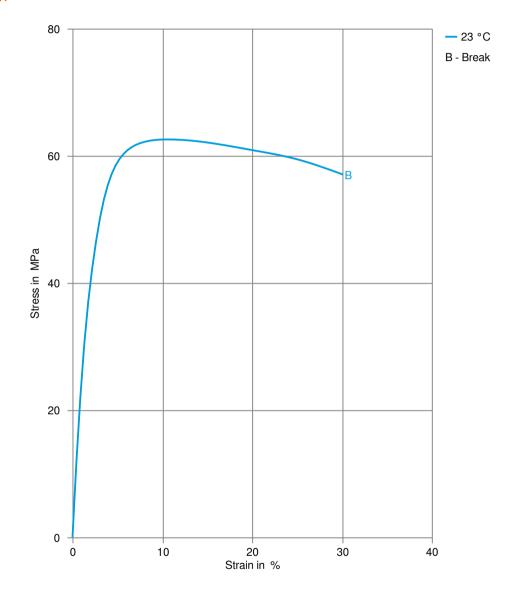
Characteristics

Additives

Release agent

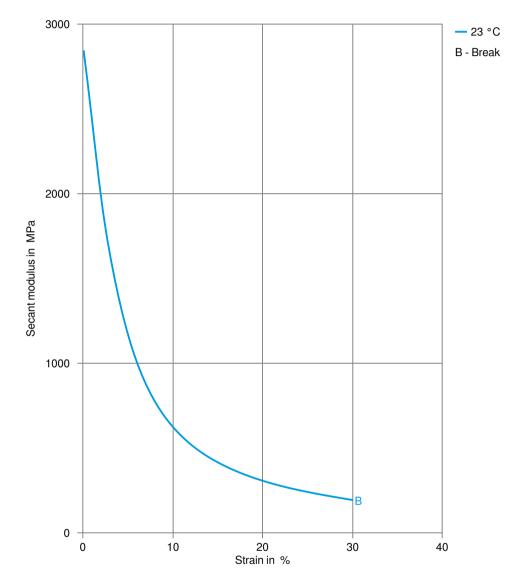


Stress-strain



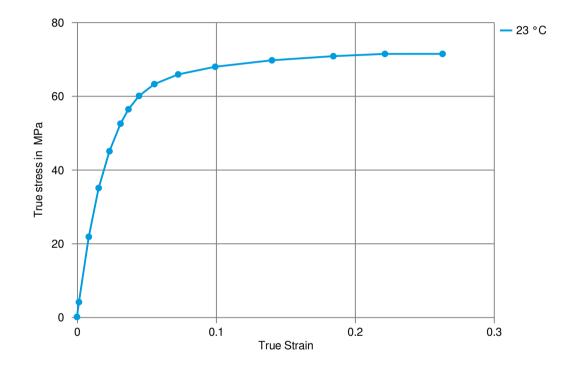


Secant modulus-strain





True stress-strain





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.

Printed: 2023-08-07

Revised: 2023-02-23 Source: Celanese Materials Database

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