

Hostaform® MT®8U01 ECO-B is an injection molding grade with a molecular weight for excellent moldability and optimum properties in demanding applications.

Hostaform® MT®8U01 ECO-B 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 Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate	8	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2850	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	64	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural modulus	2700	MPa	ISO 178
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h	1300	MPa	ISO 899-1
Charpy impact strength, 23°C	220	kJ/m²	ISO 179/1eU
Charpy impact strength, -30 °C	220	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Poisson's ratio	0.37 ^[C]		
[C]: Calculated			

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Thermal pro	operties
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Melting temperature, 10°C/min Temperature of deflection under load, Coefficient of linear thermal expansion (CLTE), parallel Physical/Other properties		166 104 110		ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Humidity absorption, 2mm		0.2	%	Sim. to ISO 62
Water absorption, 2mm		0.65	%	Sim. to ISO 62
Density		1410	kg/m³	ISO 1183
Injection				
Drying Recommended		no		
Drying Temperature		100	°C	
Drying Time, Dehumidified Dryer		3 - 4		
Processing Moisture Content		≤0.2		
Melt Temperature Optimum		200		
Min. melt temperature		190		
Max. melt temperature		210		
Screw tangential speed Mold Temperature Optimum		≤0.3 100		
Min. mould temperature			°C	
Max. mould temperature		120		
Hold pressure range		60 - 120		
Characteristics				
Processing	Injection Moulding			
Additives	Release agent			
Sustainability	Bio-Content			

Additional information

Processing Notes

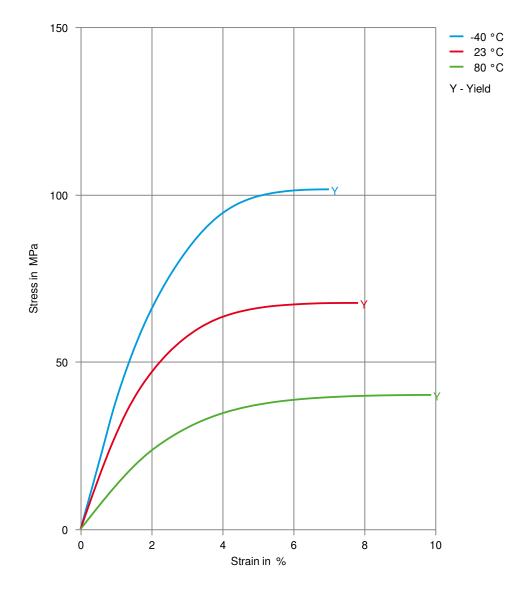
Pre-Drying

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.





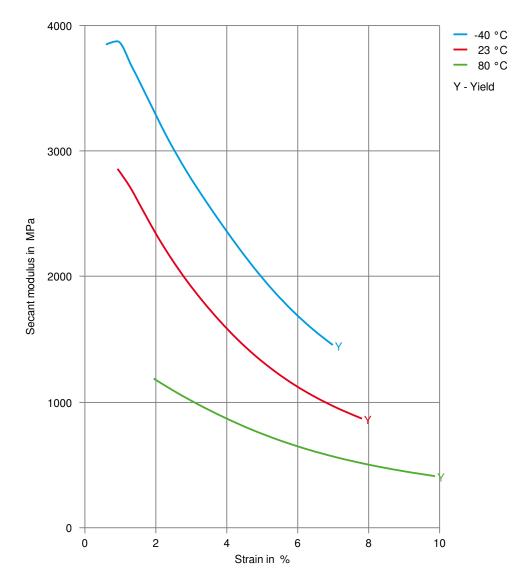
Stress-strain







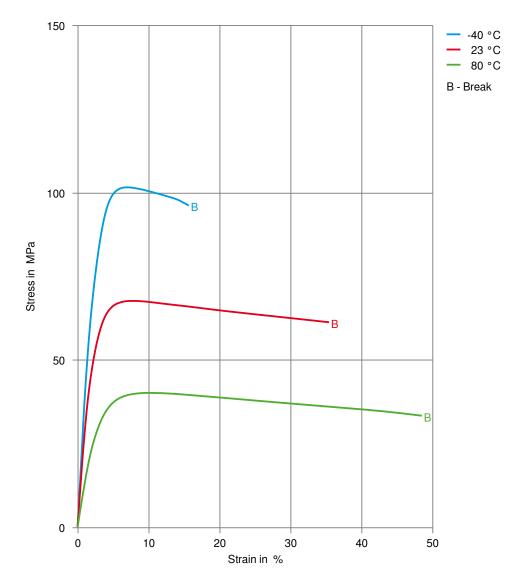
Secant modulus-strain







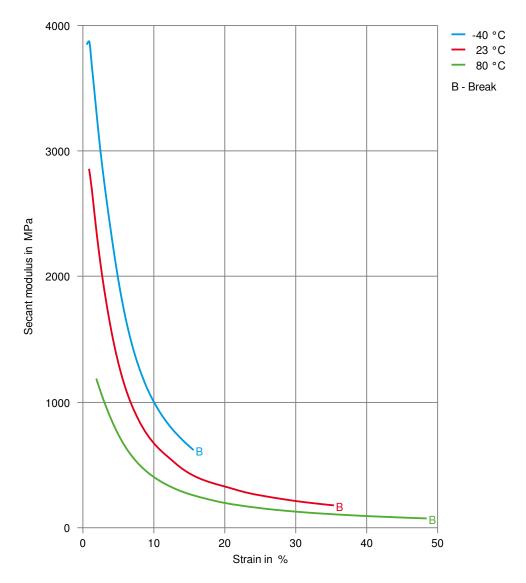
Stress-strain, 50mm/min







Secant modulus-strain, 50mm/min



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NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. Contained in this publication is accurate; however, we do not assume any liability of the dusers to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material industion for handling each material th

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