

Low level PTFE filled product with high flow for use in medical technology applications

Hostaform® MT®24F01 is a low level polytetraflouroethylene filled (PTFE) product designed for use in wear applications against plastics, metal, glass or ceramic mating surfaces where silicone lubricants can not be tolerated.

Hostaform® MT®24F01is 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

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Melt volume-flow rate	21	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Typical mechanical properties			
Tensile Modulus	2600	MPa	ISO 527-1/-2
Yield stress, 50mm/min	58	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	25	%	ISO 527-1/-2
Shear Modulus	1010	MPa	ISO 6721
Charpy impact strength, 23°C	80	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30	145	MPa	ISO 2039-1
Thermal properties			
Temp. of deflection under load, 1.8 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	146	°C	ISO 306
Other properties			

Other properties

Density	1440 kg/m^3	ISO 1183
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Injection

Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3 - 4 h	
Melt Temperature Optimum	190 °C	Internal
Max. mould temperature	80 - 120 °C	
Back pressure	2 MPa	
Injection speed	slow-medium	

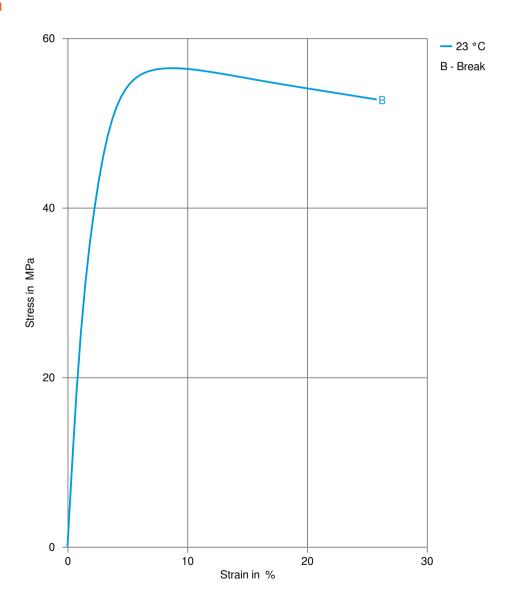
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Characteristics

Additives Release agent

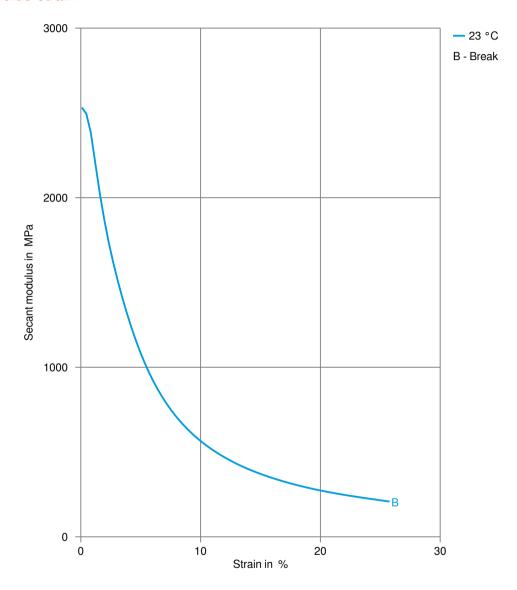
Stress-strain



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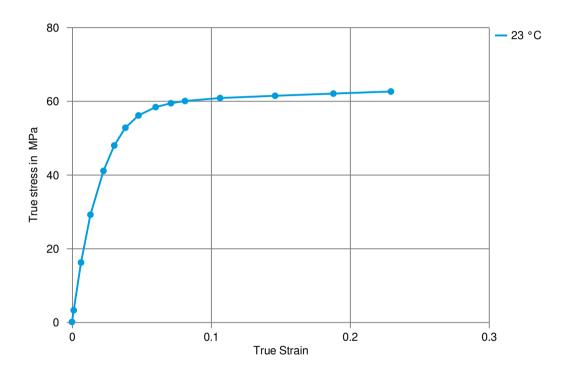
Secant modulus-strain



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True stress-strain



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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.

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

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 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. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users 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, pr

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