

#### HOSTAFORM<sup>®</sup> C 9021 FCT1

#### Friction modified, FDA complaint

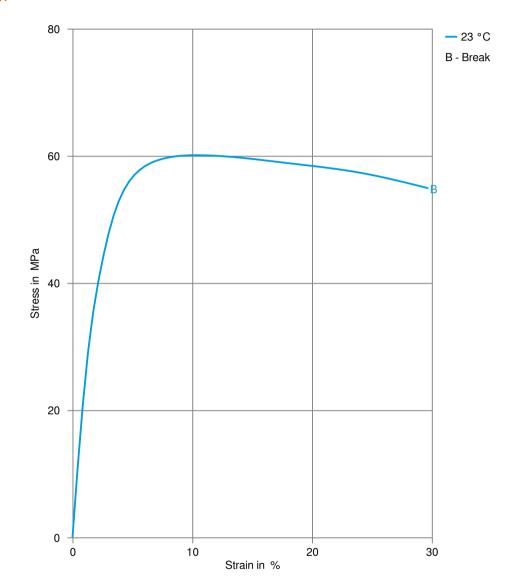
This tribological modified grade has a good combination of mechanical properties and tribological properties. The mechanical properties are comparable to Hostaform® C 9021, especially the good weld line strength. This grade is FDA compliant for food contact applications.

Rheological properties		
Melt volume-flow rate	8.5 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Typical mechanical properties		
Tensile Modulus	2800 MPa	ISO 527-1/-2
Yield stress, 50mm/min	63 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	30 %	ISO 527-1/-2
Shear Modulus	995 MPa	ISO 6721
Charpy notched impact strength, 23°	C 7.5 kJ/m <sup>2</sup>	ISO 179/1eA
Thermal properties		
Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Other properties		
Other properties		
Density	1400 kg/m <sup>3</sup>	ISO 1183
Injection		
Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3-4 h	
Melt Temperature Optimum	190 °C	Internal
Characteristics		
Additives	Release agent	
Additional information		
Injection molding	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.	



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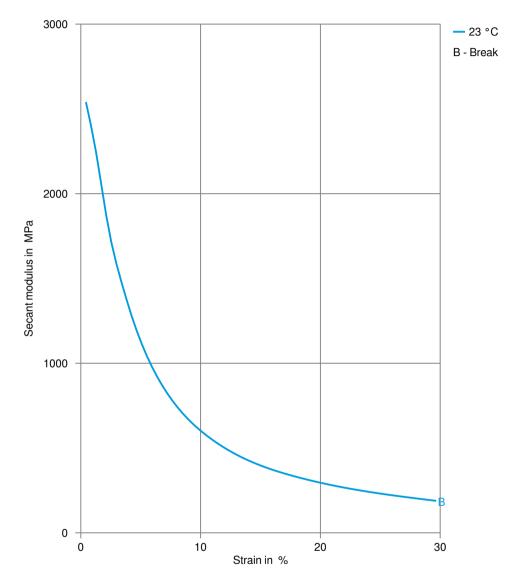
Stress-strain





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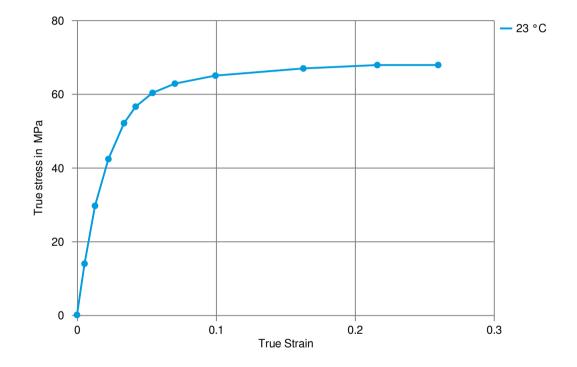
#### Secant modulus-strain





# HOSTAFORM® C 9021 FCT1

True stress-strain





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Processing Texts	
Injection molding	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.
Injection molding Preprocessing	General drying is not necessary due to low moisture absorption of the resin.
	In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.
	Max. Water content 0,2 %
Injection molding Postprocessing	Conditioning e.g. moisturizing is not necessary.

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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 for any use contemplated by a mole call 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 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 he lowest that texist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, a

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