

Hostaform C 13031 with UV additives

POM copolymer

Easy flowing Injection molding type like C 13021, but with higher strength, rigidity and hardness over the entire permissible temperature range for HOSTAFORM; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. With UV Additives

Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm.

Ranges of applications: For molded parts with higher requirements to strength, rigidity und hardness,

FMVSS = Federal Motor Vehicle Safety Standard (USA)

#### **Rheological properties**

Melt volume-flow rate Temperature Load	190 2.16	-	ISO 1133
Moulding shrinkage, parallel Moulding shrinkage, normal		%	ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus Yield stress, 50mm/min Yield strain, 50mm/min Nominal strain at break Flexural Modulus Tensile creep modulus, 1h Tensile creep modulus, 1000h Charpy impact strength, 23°C Charpy impact strength, -30°C Charpy notched impact strength, -30°C	68 8 28 3000 2750 1450 200 6.7 6	% MPa MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 899-1 ISO 899-1 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA
Ball indentation hardness, H 358/30 Thermal properties	156	MPa	ISO 2039-1
Melting temperature, 10°C/min Temp. of deflection under load, 1.8 MPa Vicat softening temperature, 50°C/h, 50N Coeff. of linear therm. expansion, parallel	107 158	°C °C °C E-6/K	ISO 11357-1/-3 ISO 75-1/-2 ISO 306 ISO 11359-1/-2
Electrical properties Relative permittivity, 100Hz Relative permittivity, 1MHz Dissipation factor, 100Hz Dissipation factor, 1MHz Volume resistivity Surface resistivity	50 1E12		IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2

Printed: 2023-08-07



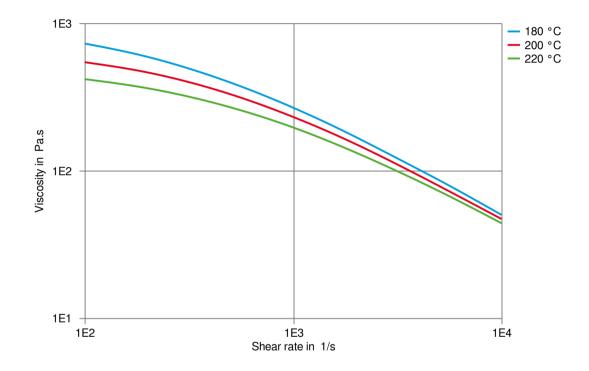
# HOSTAFORM® C 13031 LS

Electric strength Comparative tracking index	35 PLC 0	kV/mm PLC	IEC 60243-1 UL 746A
Other properties			
Humidity absorption, 2mm Water absorption, 2mm	0.2 0.65		Sim. to ISO 62 Sim. to ISO 62
Density	1410	kg/m³	ISO 1183
Injection			
Drying Temperature	100 - 120	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	0.15		
Screw tangential speed	0.2 - 0.21		
Max. mould temperature	80 - 120		
Back pressure	4 slow-medium	MPa	
Injection speed	siow-medium		
Characteristics			
Additives	Release agent		
Additional information			
Injection molding	Standard injection moulding machines with three phase (15 to 25 D)		

e phase (15 to 25 D) plasticating screws will fit.

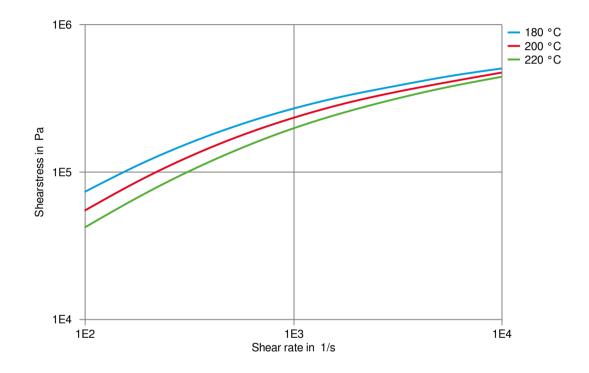


Viscosity-shear rate



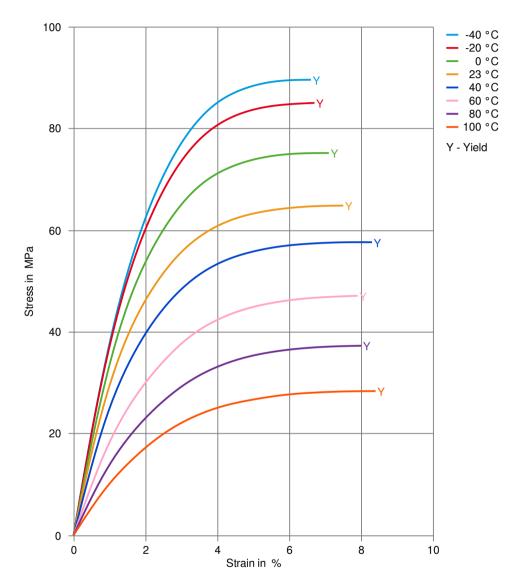


Shearstress-shear rate



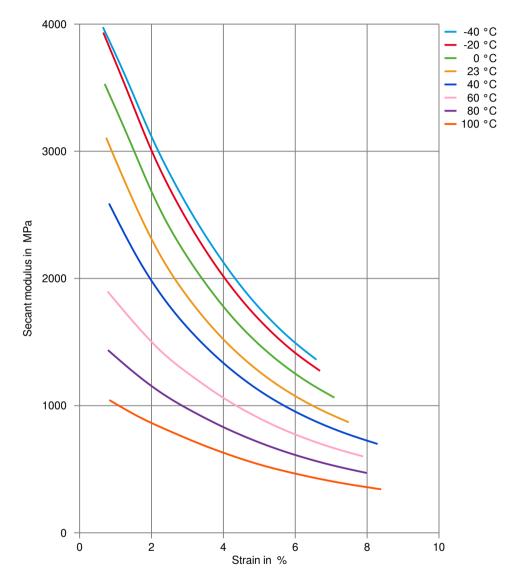


Stress-strain



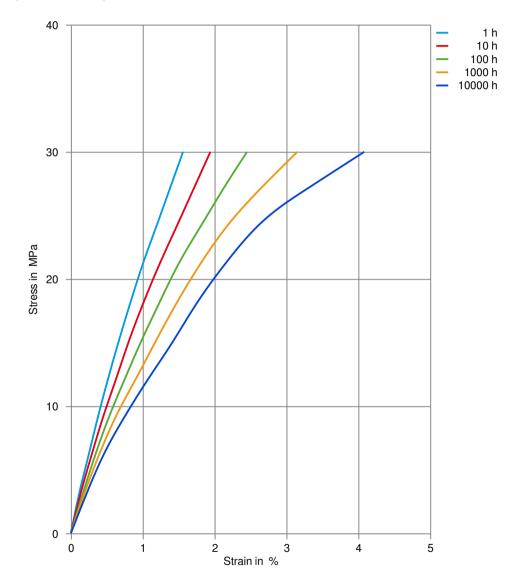


#### Secant modulus-strain



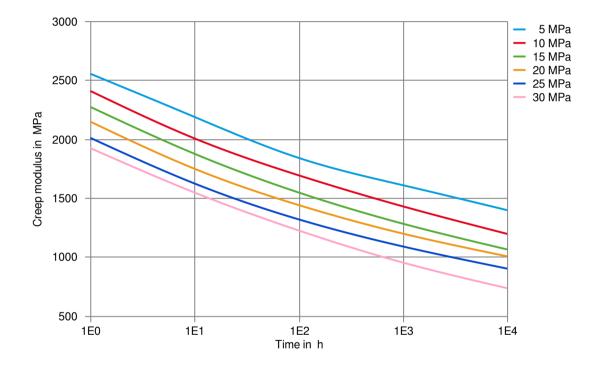


#### Stress-strain (isochronous) 23°C





Creep modulus-time 23°C





Processing Texts	
Pre-drying	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.
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.

Printed: 2023-08-07

Page: 9 of 9

Revised: 2023-02-23 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 not intended for use in medical or dental implants. Regardless of any such product 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 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 the 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 achere to the m

© 2023 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.