



HOSTAFORM®

Hostaform® acetal copolymer grade C13031 XF is an acetal copolymer modified to resist deterioration from aggressive fuel blends. This material is specially targeted for transportation industry fuel systems. In natural form, Hostaform® C13031 XF has a distinctive yellow color (Color code 50/5339) to denote use for fuel systems. Additionally the product is available in black 10/9022 for laser welding applications.

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Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate	12	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.2		ISO 294-4, 2577
Moulding shrinkage, normal	1.9	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2850	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	62	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11		ISO 527-1/-2
Nominal strain at break	30		ISO 527-1/-2
Flexural modulus	2900		ISO 178
Flexural stress at 3.5%		MPa	ISO 178
Charpy impact strength, 23°C		kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C		kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C		kJ/m² kJ/m²	ISO 179/1eA ISO 179/1eA
Hardness, Rockwell, M-scale	88	KJ/III	ISO 2039-2
Ball indentation hardness, H 358/30		MPa	ISO 2039-1
Poisson's ratio	0.423	Wii G	100 2003 1
Thermal properties			
Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	102		ISO 75-1/-3
Temperature of deflection under load, 0.45 MPa	159		ISO 75-1/-2
Coefficient of linear thermal expansion		E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Coefficient of linear thermal expansion (CLTE), normal	90	E-6/K	ISO 11359-1/-2
Flammability			
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	61.7	mm/min	ISO 3795 (FMVSS 302)

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Physical/Other properties

Humidity absorption, 2mm	0.3 %	Sim. to ISO 62
Density	1420 kg/m ³	ISO 1183

Injection

Drying Recommended	no	
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Drying Temperature	100	$^{\circ}\mathrm{C}$
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	200	°C
Min. melt temperature	190	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	80	°C
Max. mould temperature	120	°C
Hold pressure range	60 - 120	MPa
Back pressure	4	MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics Chemical resistant

Additional information

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 $^{\circ}$ C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Postprocessing

Conditioning e.g. moisturizing is not necessary.

Processing Notes

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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.

Yellow

Automotive

OEM STANDARD ADDITIONAL INFORMATION
Bosch N28 BN22-O026 Black, Made In Frankfurt
Bosch N28 BN22-O026 Yellow, Made In Frankfurt

 Continental
 TST N 055 54.03

 Continental
 TST N 055 54.25

 General Motors
 GMW18026P-POM

Hyundai MS237-14 Type A

Mercedes-Benz Fuel

Renault EP10-1c, No Spec, Special Part Approval, See

Your CE Account Manager.

Stellantis MS.50095 / POM-C.3000F.7I 01994_14_00058, CPN4111 CANOD

Stellantis - Chrysler MS.50095 / CPN-4111 Canod;01994_14_00058, CPN4111 CANOD

VW Group TL 526 36C

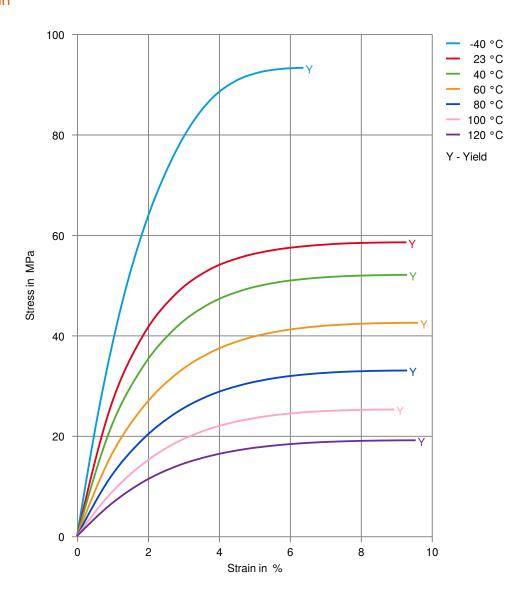
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Stress-strain



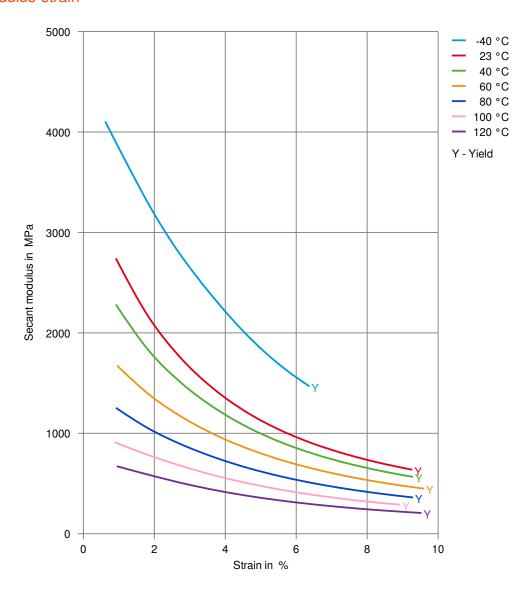
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Secant modulus-strain



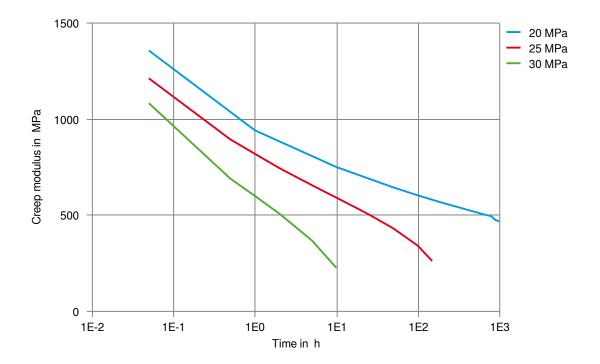
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Creep modulus-time 60°C



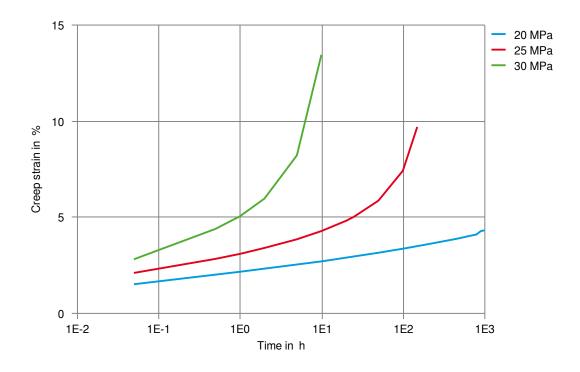
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Creep strain-time 60°C



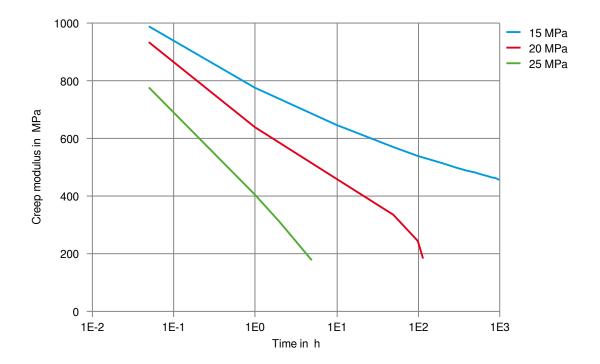
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Creep modulus-time 80°C



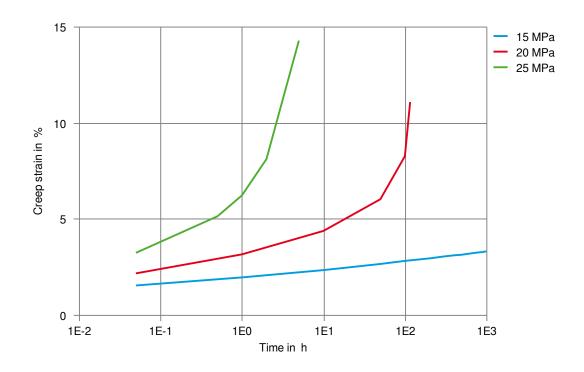
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Creep strain-time 80°C



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HOSTAFORM® C 13031 XF

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Chemical Media Resistance

Standard Fuels

- ✓ ISO 1817 Liquid 1 E5, 60°C
- ✓ ISO 1817 Liquid 2 M15E4, 60°C
- ✓ ISO 1817 Liquid 3 M3E7, 60°C
- ✓ ISO 1817 Liquid 4 M15, 60°C
- ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C), 23°C
- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4), 23°C

Symbols used:

✓ possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

x not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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Revised: 2025-04-23 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, 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. 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 e

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