



#### **HOSTAFORM®**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 04-002 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. Monomers and additives are listed in EU-Regulation (EU) 10/2011 FDA compliant according to 21 CFR 177.2470 UL-registration for all colours and a thickness more than 1.5 mm as UL 94 HB; 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, ranges of applications with fuel contact. FDA = Food and Drug Administration (USA) UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

#### Product information

Product information			
Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
-			
Rheological properties			
Melt volume-flow rate	12	cm <sup>3</sup> /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	3050	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	68	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	28	%	ISO 527-1/-2
Flexural modulus	3000	MPa	ISO 178
Flexural stress at 3.5%	78	MPa	ISO 178
Compressive stress at 1% strain		MPa	ISO 604
Tensile creep modulus, 1h	2750		ISO 899-1
Tensile creep modulus, 1000h	1450		ISO 899-1
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30		MPa	ISO 2039-1
Poisson's ratio	0.428		
Thermal properties			
Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	107	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	161	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	110	E-6/K	ISO 11359-1/-2
(CLTE), parallel Thermal conductivity of melt	0.155	W/(m K)	ISO 22007-2
	5.100	,	.55 ==507 =

Printed: 2025-05-30 Page: 1 of 11





### **HOSTAFORM®**

#### Flammability

Burning Behav. at 1.5mm nom. thickn.	HB cla	lass	IEC 60695-11-10
Thickness tested	1.5 mi	nm	IEC 60695-11-10
Burning Behav. at thickness h	HB cla	lass	IEC 60695-11-10
Thickness tested	3 mi	nm	IEC 60695-11-10
UL recognition	yes		UL 94

### **Electrical properties**

Relative permittivity, 100Hz	4	IEC 62631-2-1
Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 100Hz	20 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50 E-4	IEC 62631-2-1
Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E14 Ohm	IEC 62631-3-2
Electric strength	35 kV/mm	IEC 60243-1
Comparative tracking index	600	IEC 60112

## Physical/Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1410 kg/m <sup>3</sup>	ISO 1183

## Injection

Drying Recommended	no	
Drying Temperature	100	°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
Ejection temperature	136	°C

#### Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent

Printed: 2025-05-30 Page: 2 of 11





#### **HOSTAFORM®**

#### 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** 

#### **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.

#### Storage

The product can then be stored in standard conditions until processed.

Black 12

Black

Natural

Page: 3 of 11

#### **Automotive**

Ford

General Motors

General Motors

Printed: 2025-05-30

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN22-O025	Natural
Bosch	N28 BN22-O025	Black
Continental	TST N 055 54.11	
Continental	TST N 055 54.11	(TST N 055 54.11-001)
Continental	TST N 055 54.30	
Ford	WSK-M4D635-A2	Natural

WSK-M4D635-A2

GMW22P-POM-C3

GMW22P-POM-C3





### **HOSTAFORM®**

Li Auto Q/LiA5310020 2021 (V2)

Mercedes-Benz Fuel (Black)

Mercedes-Benz DBL5405-06-POM-C Natural

Renault UB03f, No Spec, Special Part Approval, See

Your CE Account Manager.

Stellantis B62 0300 / 61/213E-213M-/H0506E/H0509G 01994\_14\_00057, CPN4270 NATURAL

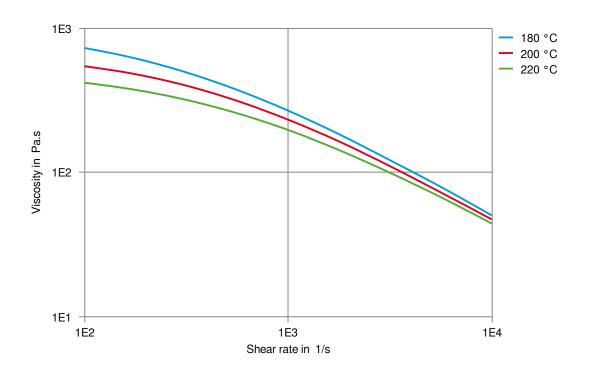
Stellantis - Chrysler MS.50095 / CPN-4270 Natural;01994\_14\_00057, CPN4270

NATURAL

 VW Group
 TL 526 36A

 VW Group
 TL 526 36C

#### Viscosity-shear rate



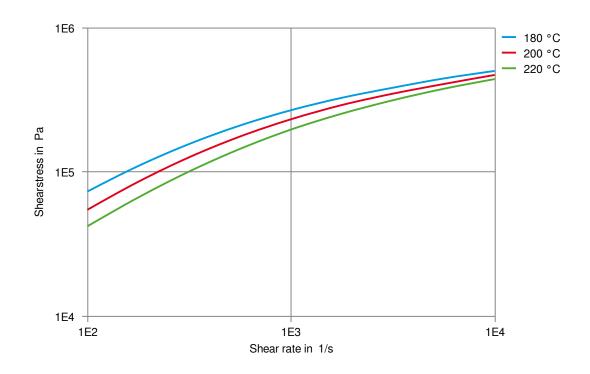
Printed: 2025-05-30 Page: 4 of 11





**HOSTAFORM®** 

Shearstress-shear rate



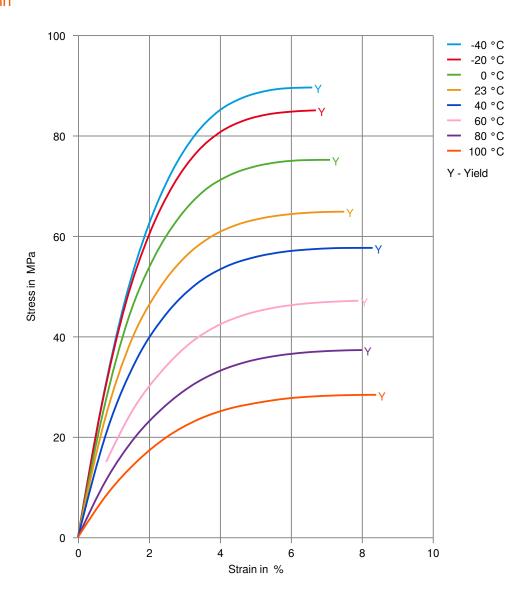
Printed: 2025-05-30 Page: 5 of 11





### **HOSTAFORM®**

### Stress-strain



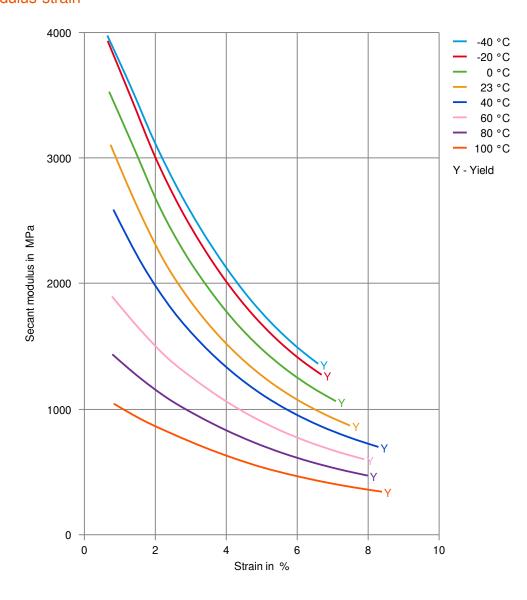
Printed: 2025-05-30 Page: 6 of 11





### **HOSTAFORM®**

### Secant modulus-strain



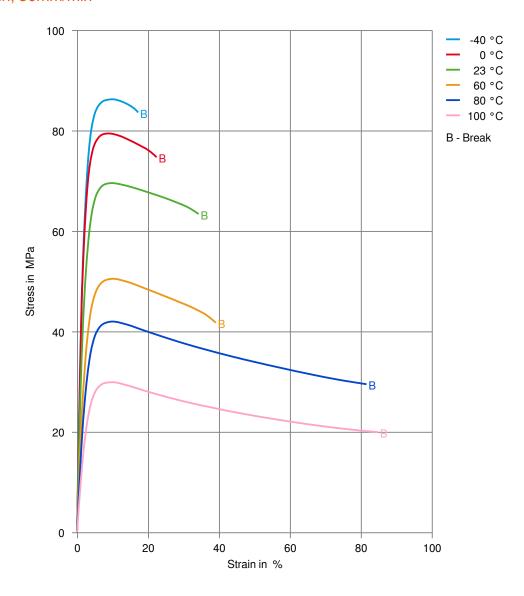
Printed: 2025-05-30 Page: 7 of 11





## **HOSTAFORM®**

Stress-strain, 50mm/min



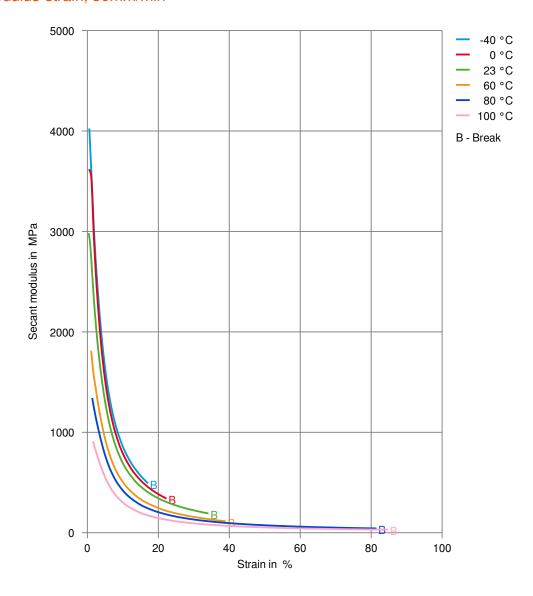
Printed: 2025-05-30 Page: 8 of 11





**HOSTAFORM®** 

Secant modulus-strain, 50mm/min



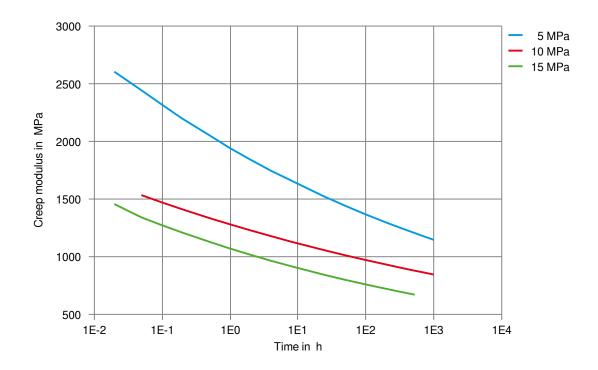
Printed: 2025-05-30 Page: 9 of 11





**HOSTAFORM®** 

Creep modulus-time 80°C



Printed: 2025-05-30 Page: 10 of 11

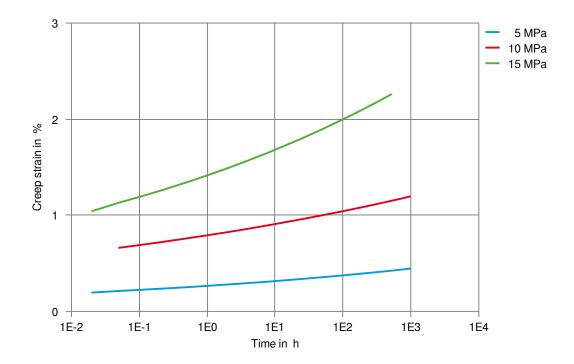
(+) **18816996168**Ponciplastics. com



# HOSTAFORM® C 13031

**HOSTAFORM®** 

Creep strain-time 80°C



Printed: 2025-05-30 Page: 11 of 11

Revised: 2024-07-16 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

© 2025 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.