



ISO 1043

## HOSTAFORM® C 2521

### **HOSTAFORM®**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 01-002

#### POM copolymer

Stiff-flowing type for injection molding and extrusion with high impact toughness and good tracking resistance over a high range of temperature; 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 Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm.

Ranges of applications: injection molding thick-walled, void-free molded parts; extrusion e.g. for boards and pipes. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

**POM** 

#### **Product information**

Resin Identification

[C]: Calculated

>POM<		ISO 11469
2.5	cm <sup>3</sup> /10min	ISO 1133
190	°C	
2.16	kg	
2.8	g/10min	ISO 1133
190	°C	
2.16	kg	
2.1	%	ISO 294-4, 2577
1.8	%	ISO 294-4, 2577
2600	MPa	ISO 527-1/-2
62	MPa	ISO 527-1/-2
9	%	ISO 527-1/-2
32	%	ISO 527-1/-2
2500	MPa	ISO 178
66	MPa	ISO 178
2300	MPa	ISO 899-1
		ISO 899-1
250 <sup>[P]</sup>	kJ/m²	ISO 179/1eU
		ISO 179/1eU
		ISO 179/1eA
7	kJ/m²	ISO 179/1eA
	MPa	ISO 2039-1
0.38 <sup>[C]</sup>		
	2.5 190 2.16 2.8 190 2.16 2.1 1.8 2600 62 9 32 2500 66 2300 1100 250 <sup>[P]</sup> 250 8.5	2.5 cm³/10min 190 °C 2.16 kg 2.8 g/10min 190 °C 2.16 kg 2.1 % 1.8 %  2600 MPa 62 MPa 9 % 32 % 2500 MPa 66 MPa 2300 MPa 1100 MPa 250 MPa 250 MPa 1100 MPa 250 MPa 1100 MPa 250 MPa 1100 MPa 250 KJ/m² 250 kJ/m² 144 MPa

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### **HOSTAFORM®**

<b>Thermal</b>	I properties
monna	Proportion

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	101 °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
Specific heat capacity of melt	2210 J/(kg K)	ISO 22007-4

### Flammability

Burning Behav. at 1.5mm nom. thickn.	НВ	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
UL recognition	yes		UL 94
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	33.9	mm/min	ISO 3795 (FMVSS 302)

### **Electrical properties**

Relative permittivity, 100Hz Relative permittivity, 1MHz Dissipation factor, 100Hz	4 4 15 E-4	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1
Dissipation factor, 1MHz Volume resistivity	50 E-4 1E12 Ohm.m	IEC 62631-2-1 IEC 62631-3-1
Surface resistivity Electric strength Comparative tracking index	1E14 Ohm 35 kV/mm 600	IEC 62631-3-2 IEC 60243-1 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/m³	ISO 1183

### Injection

no
100 °C
3-4 h
≤0.2 %
200 °C
190 °C
210 °C
≤0.3 m/s
100 °C
80 °C
120 °C
60 - 120 MPa
4 MPa
130 °C

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### **HOSTAFORM®**

### Characteristics

Processing Injection Moulding, Film Extrusion, Extrusion, Sheet Extrusion, Other Extrusion,

**Blow Moulding** 

Delivery form Pellets

Additives Release agent

### 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.

Film extrusion 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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

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### **HOSTAFORM®**

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Other extrusion

### 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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Profile extrusion

### Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

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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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Sheet extrusion

### 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 extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

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### **HOSTAFORM®**

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C Annealing time 10 min/mm thickness

Blow 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 %

### **Processing**

Standard extruders with plasticating screws (20 to 25 D) will fit.

Melt temperature 180-190 °C Mould-surface temperature 60-100 °C

### 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.

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### **HOSTAFORM®**

### **Automotive**

OEM STANDARD ADDITIONAL INFORMATION

BMW GS93016

BoschN28 BN22-O004Black, Made In FrankfurtBoschN28 BN22-O004Natural, Made In FrankfurtBoschN28 BN22-O004Red, Made In Frankfurt

Bosch N28 BN22-O004 Colors

Continental TST N 055 54.07
Ford WSK-M4D635-A1

General Motors Natural, Special Parts Approval, See Your CE

Account Representative for Further Details.

 Mercedes-Benz
 DBL5403
 (5403.00)

 Mercedes-Benz
 DBL5405
 (5405.01)

Mercedes-Benz DBL5405-06-POM-C 'Polyoxymethylene Copolymer'

 Mercedes-Benz
 DBL5410
 (5410.00)

 Mercedes-Benz
 DBL5420
 (5420.00)

Nissan POM-IVx-1

Stellantis MS.50210 / POM-C.2400F.6C.LF Technical Black;POM 100.65

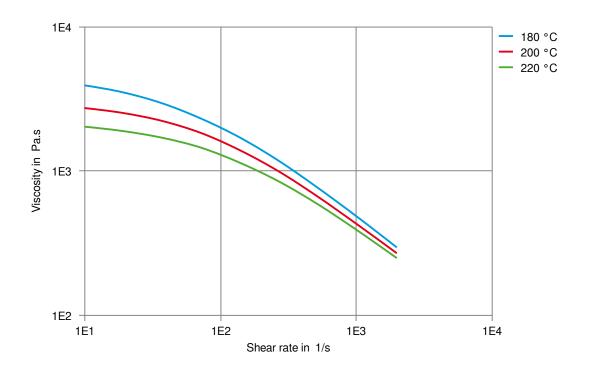
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Viscosity-shear rate



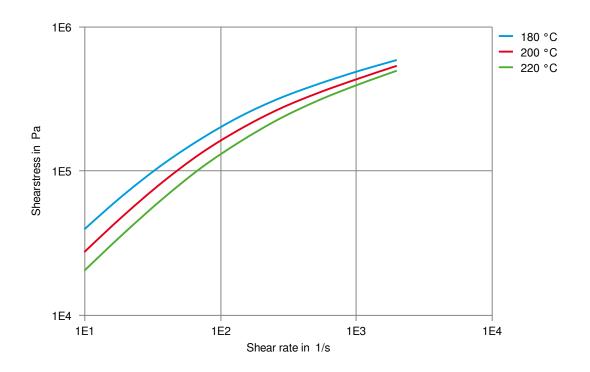
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Shearstress-shear rate



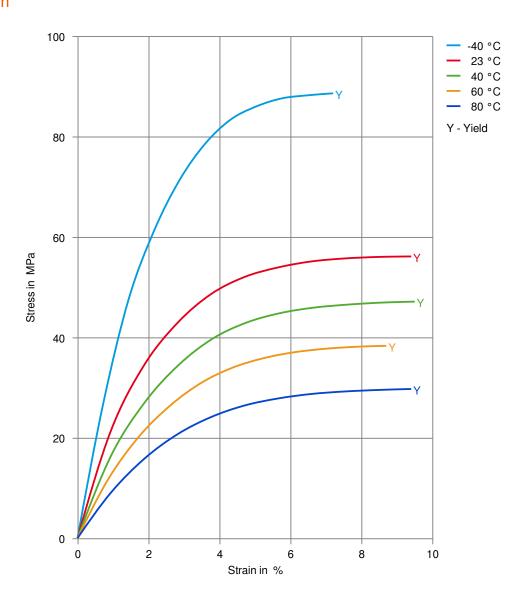
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### Stress-strain



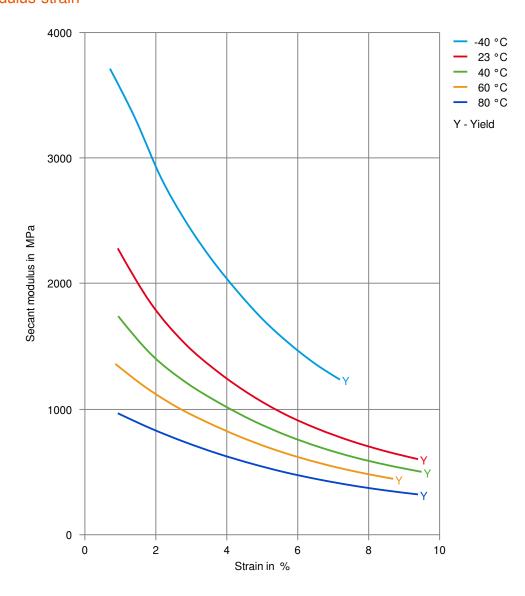
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### **HOSTAFORM®**

### Secant modulus-strain



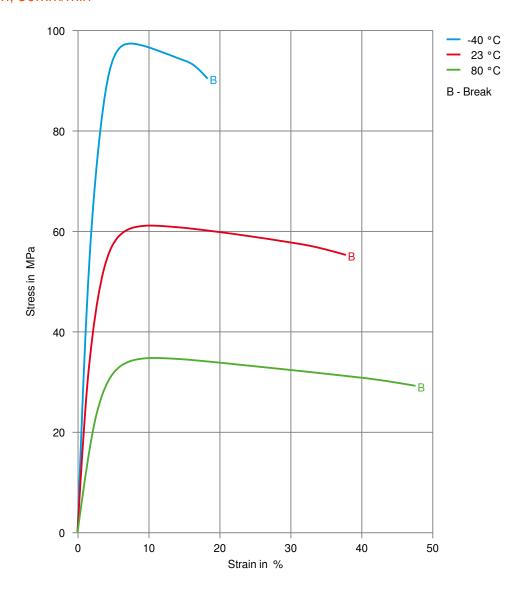
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Stress-strain, 50mm/min



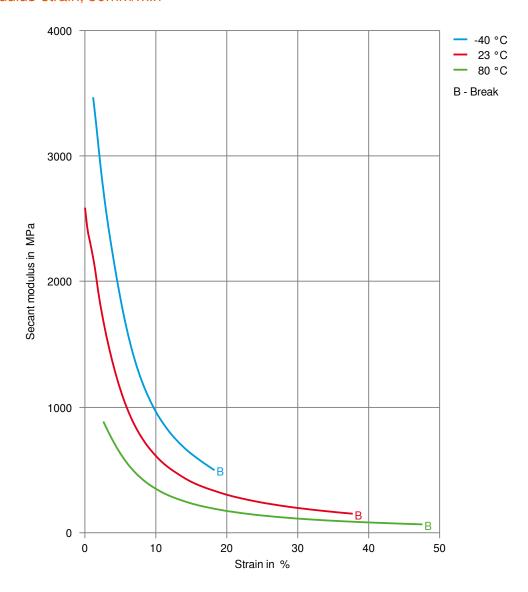
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**HOSTAFORM®** 

Secant modulus-strain, 50mm/min



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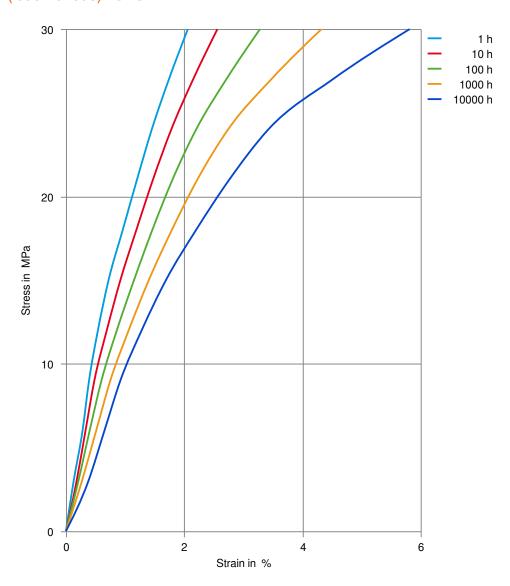
(+) 18816996168 Ponciplastics.com



## HOSTAFORM® C 2521

### **HOSTAFORM®**

Stress-strain (isochronous) 23°C



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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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