



ISO 179/1eA

ISO 2039-1

HOSTAFORM® C 2521 XAP® HOSTAFORM®

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. Ranges of applications: injection molding thickwalled, void-free molded parts extrusion e.g. for boards and pipes. Material is available in natural and black With reduced emissions: Emission according to VDA 275 < 10 mg/kg Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness) Monomers and additives are listed in EU-Regulation (EU) 10/2011 Hostaform® C 2521 XAP® natural is FDA compliant according to 21 CFR 177.2470 FDA = Food and Drug Administration (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	2.5	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2600	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	62	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Flexural modulus	2500	MPa	ISO 178
Tensile creep modulus, 1h	2300	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C	250 ^[P]	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	250	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8.5	kJ/m²	ISO 179/1eA

Poisson's ratio [P]: Partial Break [C]: Calculated

Thermal properties

Charpy notched impact strength, -30°C

Ball indentation hardness, H 358/30

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

 7 kJ/m^2

144 MPa

0.38^[C]

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Flammability

Burning Behav. at 1.5mm nom. thickn.	HB 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	30.4 mm/min	ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	35.2 mm/min	ISO 3795 (FMVSS 302)

Electrical properties

Relative permittivity, 100Hz	4		IEC 62631-2-1
Relative permittivity, 1MHz	4		IEC 62631-2-1
Dissipation factor, 100Hz	15	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 ³	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 MP	a
Back pressure	4 MP	a
Ejection temperature	140 °C	

Characteristics

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

Blow Moulding

Delivery form Pellets

Additives Release agent

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Special characteristics Low emissions

Additional information

Processing Notes

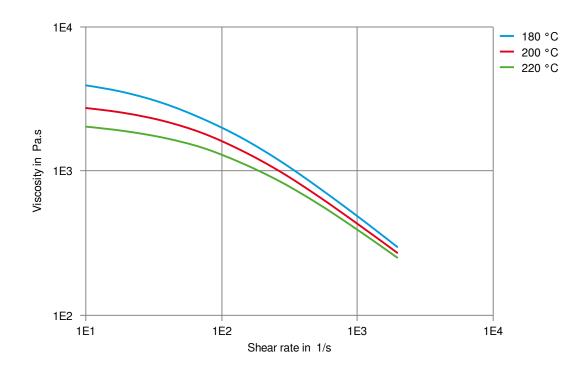
Pre-Drying

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.

Viscosity-shear rate

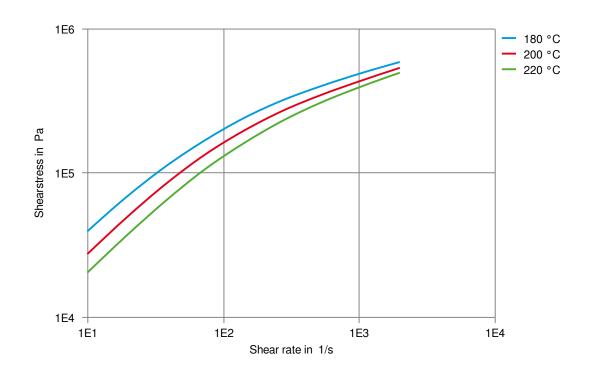


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Shearstress-shear rate

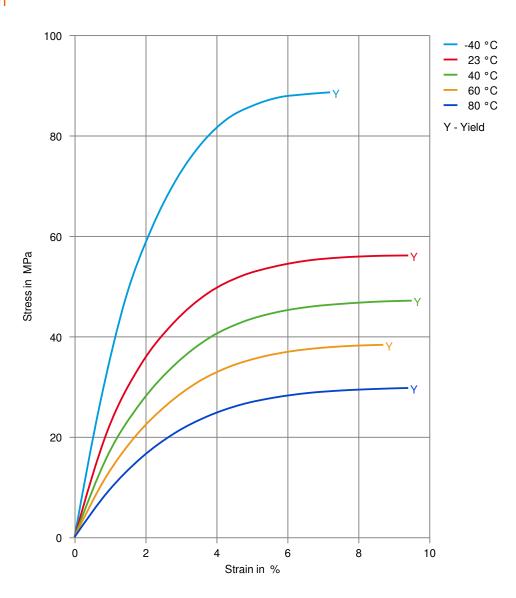


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Stress-strain

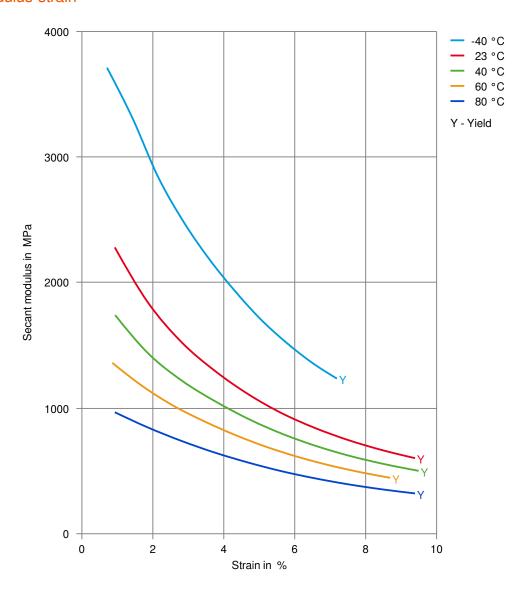


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Secant modulus-strain

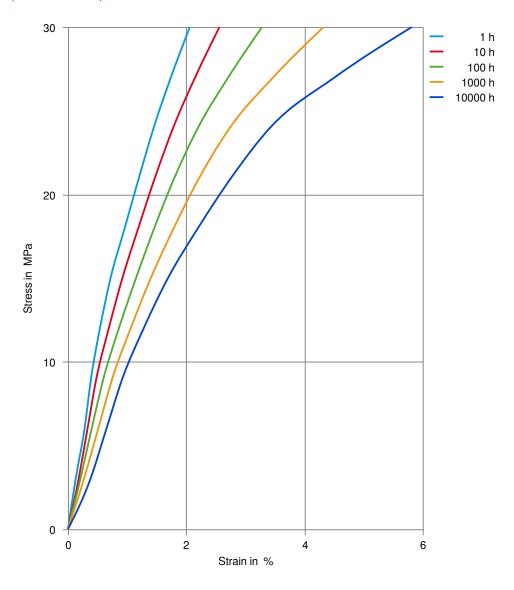


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Stress-strain (isochronous) 23°C



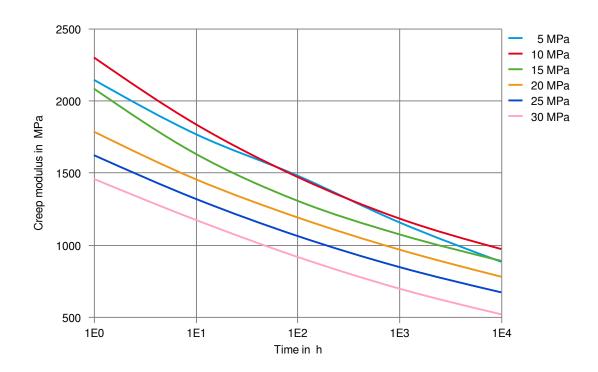
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HOSTAFORM® C 2521 XAP®

Creep modulus-time 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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