

HOSTAFORM®

Hostaform® C 9021 10/9005 is a nominal 9 melt flow rate acetal copolymer which is capable of being permanently marked by a laser. Parts molded from Hostaform® C 9021 10/9005 can be laser marked with barcodes, identification numbers, designs, 2-D symbology, etc.

Product information Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate Temperature Load Moulding shrinkage, parallel Moulding shrinkage, normal	8 190 2.16 2.0 1.8	kg %	ISO 1133 ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 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, 23°C Charpy notched impact strength, -30°C Poisson's ratio [P]: Partial Break [C]: Calculated	9 25 2700 2500 1300 180 ^[P] 160 5.5	MPa % MPa MPa	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
Thermal properties			
Melting temperature, 10 ° C/min Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel Coefficient of linear thermal expansion (CLTE),			ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2
normal Thermal conductivity of melt Effective thermal diffusivity, flow Specific heat capacity of melt	0.155 4.85E-8	W/(m K)	ISO 22007-2 ISO 22007-4 ISO 22007-4
Flammability			
Burning Behav. at 1.5mm nom. thickn. Thickness tested Burning Behav. at thickness h Thickness tested	1.5 HB	class mm class mm	IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10 IEC 60695-11-10

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UL recognition		yes		UL 94
Electrical properties				
Relative permittivity, 100Hz Relative permittivity, 1MHz Dissipation factor, 100Hz Dissipation factor, 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index		50 1E12 1E14	E-4 E-4 Ohm.m Ohm kV/mm	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112
Physical/Other properties				
Humidity absorption, 2mm Water absorption, 2mm Density		0.2 0.65 1410		Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection				
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Hold pressure range Back pressure Ejection temperature		no 100 3 - 4 ≤ 0.2 200 190 ≥ 100 ≤ 0.3 100 80 120 60 - 120 4 140	h % °C °C °C m/s °C °C °C MPa MPa	
Characteristics				
Processing	Injection Moulding			
Delivery form	Pellets			
Additives	Release agent			

Special characteristics

Additional information

Injection molding

Preprocessing

Laser Markable

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

In case of bad storage conditions (water contact or condensed water)

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the use of a recirculating air dryer (100 to 120 $^{\circ}\text{C}$ / 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.

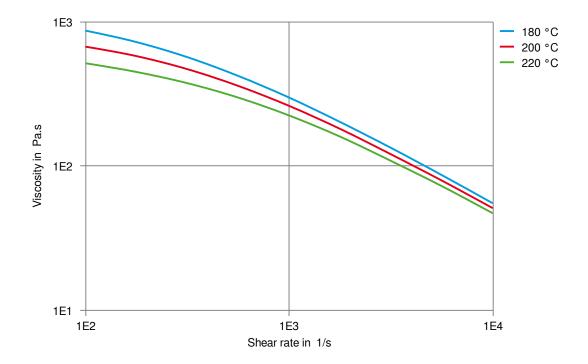




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Viscosity-shear rate

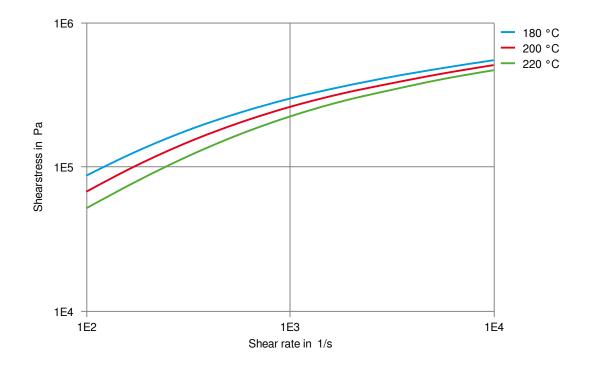






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Shearstress-shear rate

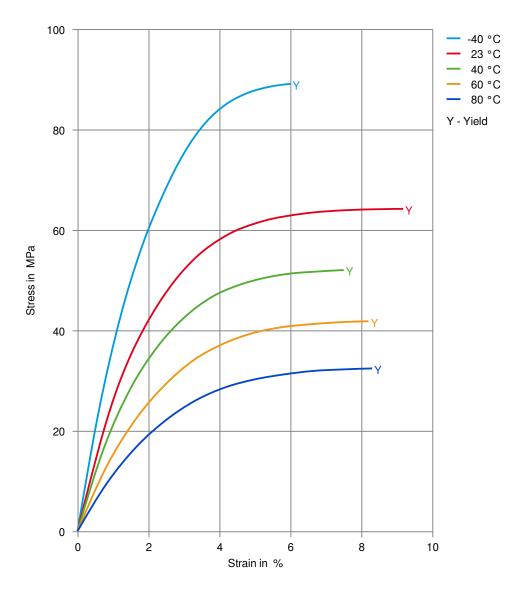






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Stress-strain

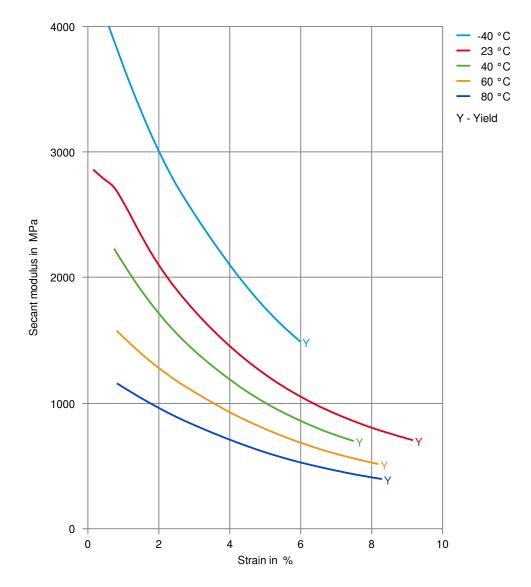






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Secant modulus-strain



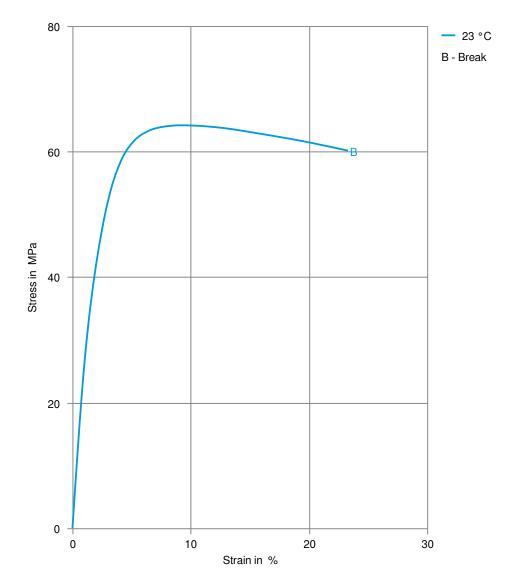




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Stress-strain, 50mm/min

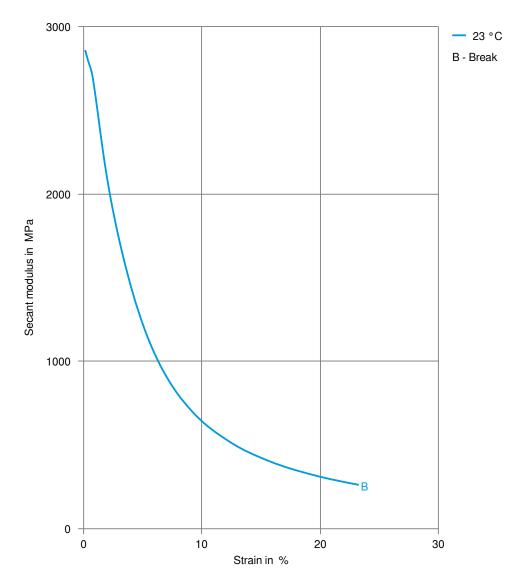






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Secant modulus-strain, 50mm/min

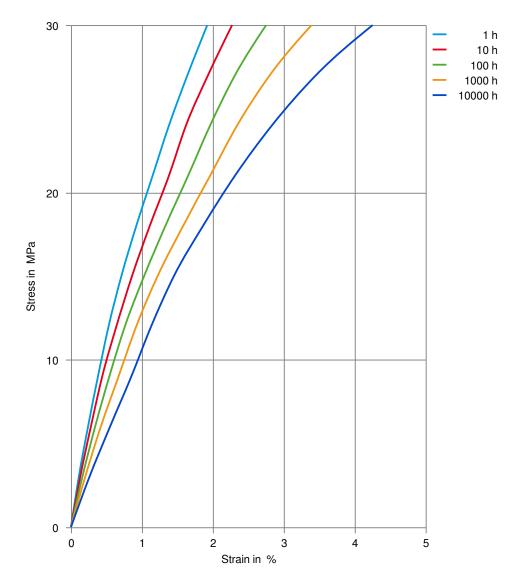






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Stress-strain (isochronous) 23°C

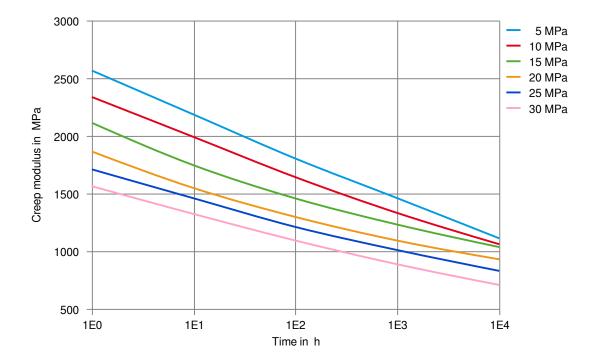






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Creep modulus-time 23°C



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