



HOSTAFORM® C 9021 S1

HOSTAFORM®

POM copolymer Injection molding type with high rigidity, hardness and toughness; good chemical resistance. With tribological modification for demanding applications that require prevention of audible noise caused by stick-slip phenomenon. Available in natural and colored. 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 < 100mm/min for a thickness more than 1 mm. Ranges of applications: precision engineering, electric and electronical industry, domestic appliances. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

Product information

Product information			
Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate Temperature Load	8.1 190 2.16		ISO 1133
Moulding shrinkage, parallel Moulding shrinkage, normal	2.0 1.8		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 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	11.5 35 180 ^[P] 160 6.5	MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min Coefficient of linear thermal expansion (CLTE), parallel	166 110	°C E-6/K	ISO 11357-1/-3 ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	110	E-6/K	ISO 11359-1/-2
Thermal conductivity of melt Effective thermal diffusivity, flow Specific heat capacity of melt	4.85E-8	W/(m K)	ISO 22007-2 ISO 22007-4 ISO 22007-4
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

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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	140	°C

Characteristics

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

Blow Moulding

Delivery form Pellets

Additives Release agent

Special characteristics Low wear / Low friction

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

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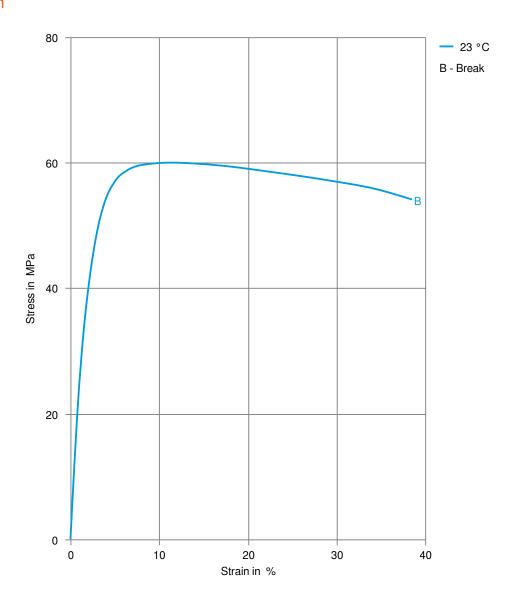
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Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

Storage

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

Stress-strain



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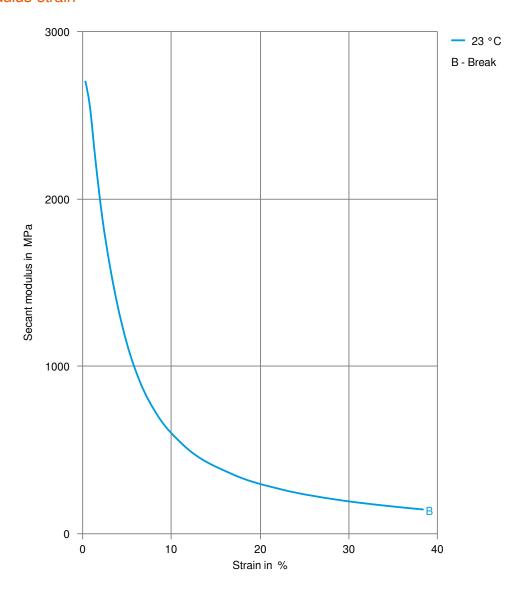
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Secant modulus-strain



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