HOSTAFORM® C 27021 AS

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POM copolymer Antistatical modified; very easy flowing Injection molding type; the antistatical effect improves, when the molded part absorbs enough humidity; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Hostaform C 27021 AS is suggested for dissipation of minor buildup of static electricity. However, it is not intended for use in fuel system components where static dissipation is critical to part performance. Please refer to Celanese's ESD (electrostatic dissipative) grades for those applications.
Preliminary Datasheet

Product information

Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469

Rheological properties

Melt volume-flow rate	25	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	384000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9000	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	20	%	ISO 527-1/-2
Charpy notched impact strength, 23°C	2.38	ftlb/in^2	ISO 179/1eA
Charpy notched impact strength, -30°C	2.14	ftlb/in^2	ISO 179/1eA
Ball indentation hardness, H 358/30	21300	psi	ISO 2039-1

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	0.61	E-4/°F	ISO 11359-1/-2

Electrical properties

Surface resistivity	1E12	Ohm	IEC 62631-3-2

Physical/Other properties

Density	0.0509	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	392	°F
Min. melt temperature	374	°F
Max. melt temperature	410	°F

HOSTAFORM® C 27021 AS

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Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s

Characteristics

Processing	Injection Molding
Additives	Release agent
Special characteristics	Anti-static, Static dissipative

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 °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.

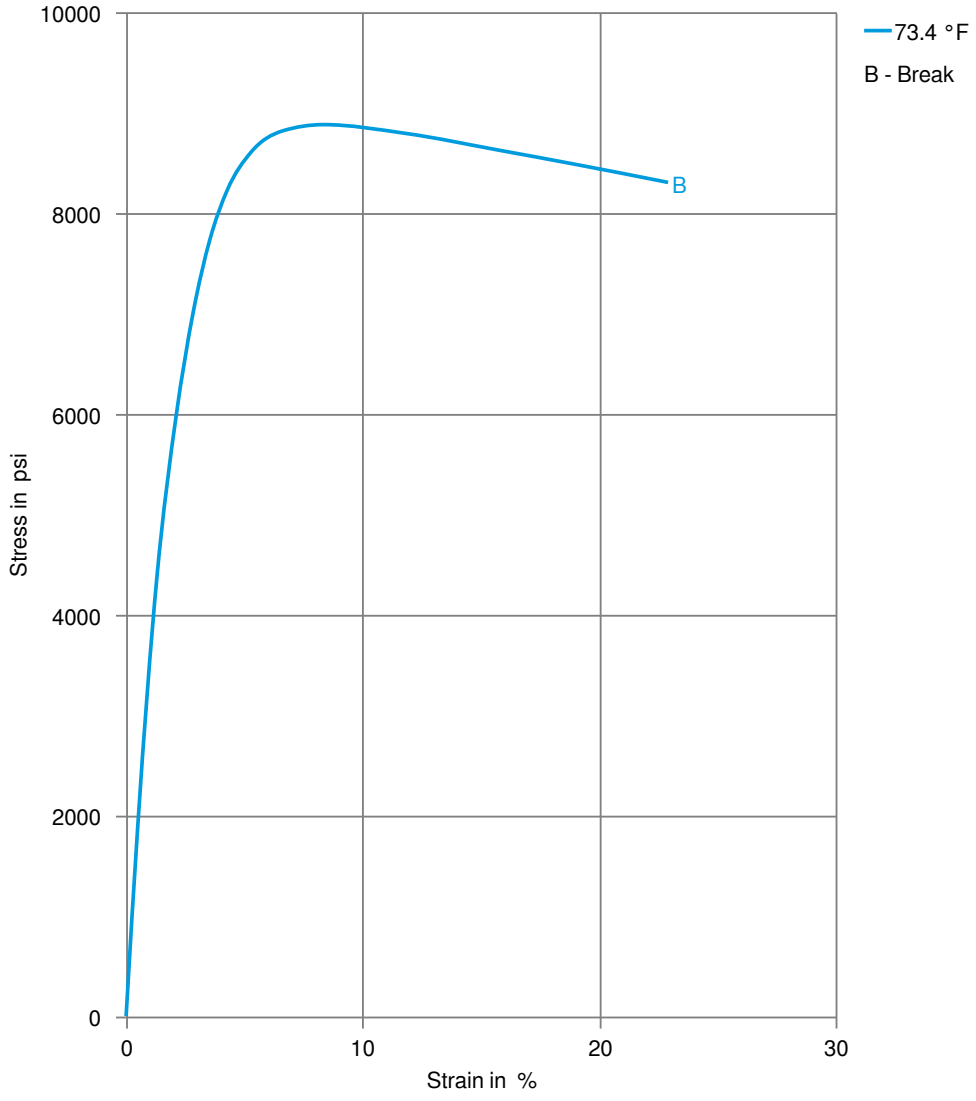
Postprocessing

Conditioning e.g. moisturizing is not necessary.

HOSTAFORM® C 27021 AS

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Stress-strain

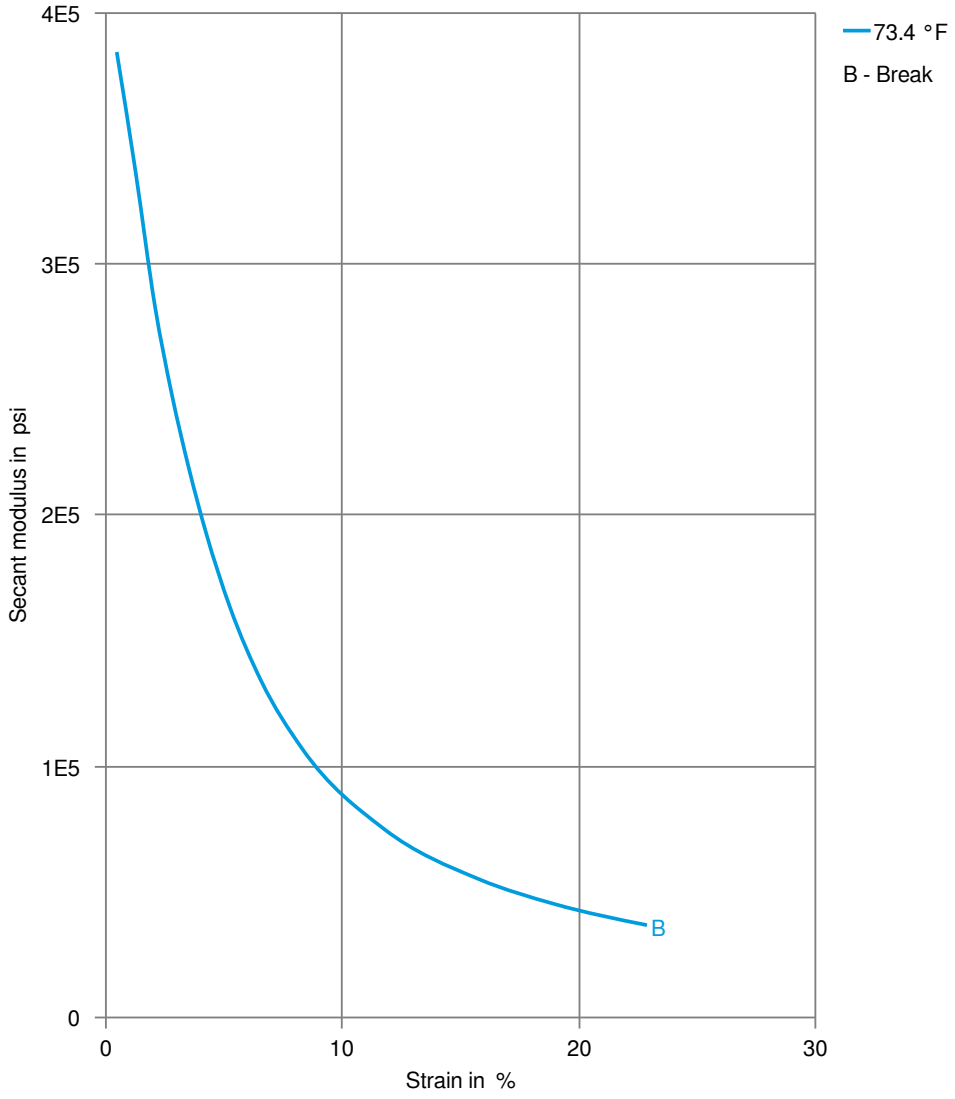


Revised: 2025-07-10 Source: Celanese Materials Database

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Secant modulus-strain



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