

HOSTAFORM® C 27021 AS - POM
Description

Antistatic grade, easy flow

POM copolymer Antistatistical modified; very easy flowing Injection molding type; the antistatistical 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 that might occur with standard type grades. 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

Physical properties	Value	Unit	Test Standard
Density	1410	kg/m ³	ISO 1183
Melt volume rate, MVR	25	cm ³ /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2.16	kg	ISO 1133
Molding shrinkage, parallel (flow)	1.9	%	ISO 294-4, 2577
Molding shrinkage, transverse normal	1.8	%	ISO 294-4, 2577

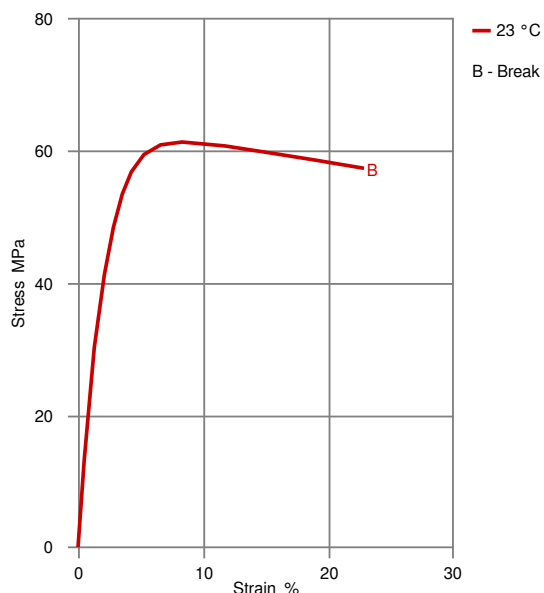
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2650	MPa	ISO 527-1, -2
Tensile stress at yield, 50mm/min	62	MPa	ISO 527-1, -2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1, -2
Tensile nominal strain at break, 50mm/min	20	%	ISO 527-1, -2
Charpy notched impact strength, 23°C	5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5	kJ/m ²	ISO 179/1eA
Ball indentation hardness, 30s	147	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Coeff. of linear therm expansion, parallel	1.1	E-4/°C	ISO 11359-2

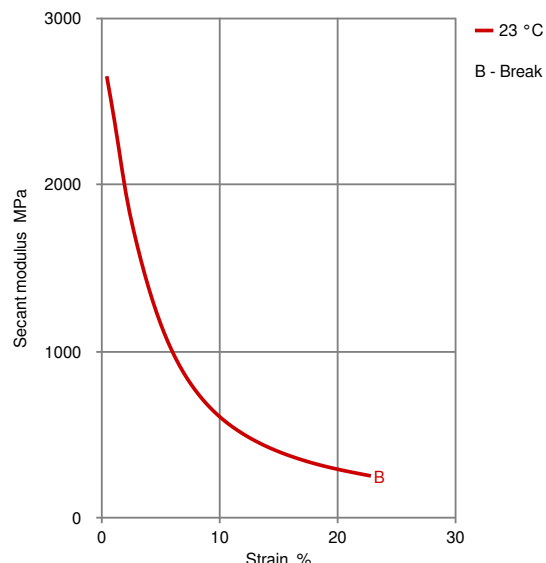
Electrical properties	Value	Unit	Test Standard
Surface resistivity, 23°C	1E12	Ohm	IEC 62631-3-2

Diagrams

Stress-strain



Secant modulus-strain



Typical injection moulding processing conditions

Pre Drying

	Value	Unit
Drying time	3 - 4	h
Drying temperature	100 - 120	°C

Other text information

Injection molding

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

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 %

Injection Molding Postprocessing

Conditioning e.g. moisturizing is not necessary.

Characteristics

Special Characteristics

Anti-static, Chemical resistant, Fuel resistant, Hydrolysis resistant

Product Categories

Specialty

HOSTAFORM® C 27021 AS - POM

Processing	Injection molding
Regulatory	FDA food contact compliant
Delivery Form	Pellets
Additives	Release agent

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General Disclaimer

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