

HOSTAFORM® C 27021 AS

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

Rheological properties

Melt volume-flow rate	25 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.9 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2650 MPa	ISO 527-1/-2
Yield stress, 50mm/min	62 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8 %	ISO 527-1/-2
Nominal strain at break	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, H 358/30	147 MPa	ISO 2039-1

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	110 E-6/K	ISO 11359-1/-2

Electrical properties

Surface resistivity	1E12 Ohm	IEC 62631-3-2
---------------------	----------	---------------

Other properties

Density	1410 kg/m ³	ISO 1183
---------	------------------------	----------

Injection

Drying Temperature	100 - 120 °C
Drying Time, Dehumidified Dryer	3 - 4 h

Characteristics

Additives	Release agent
-----------	---------------

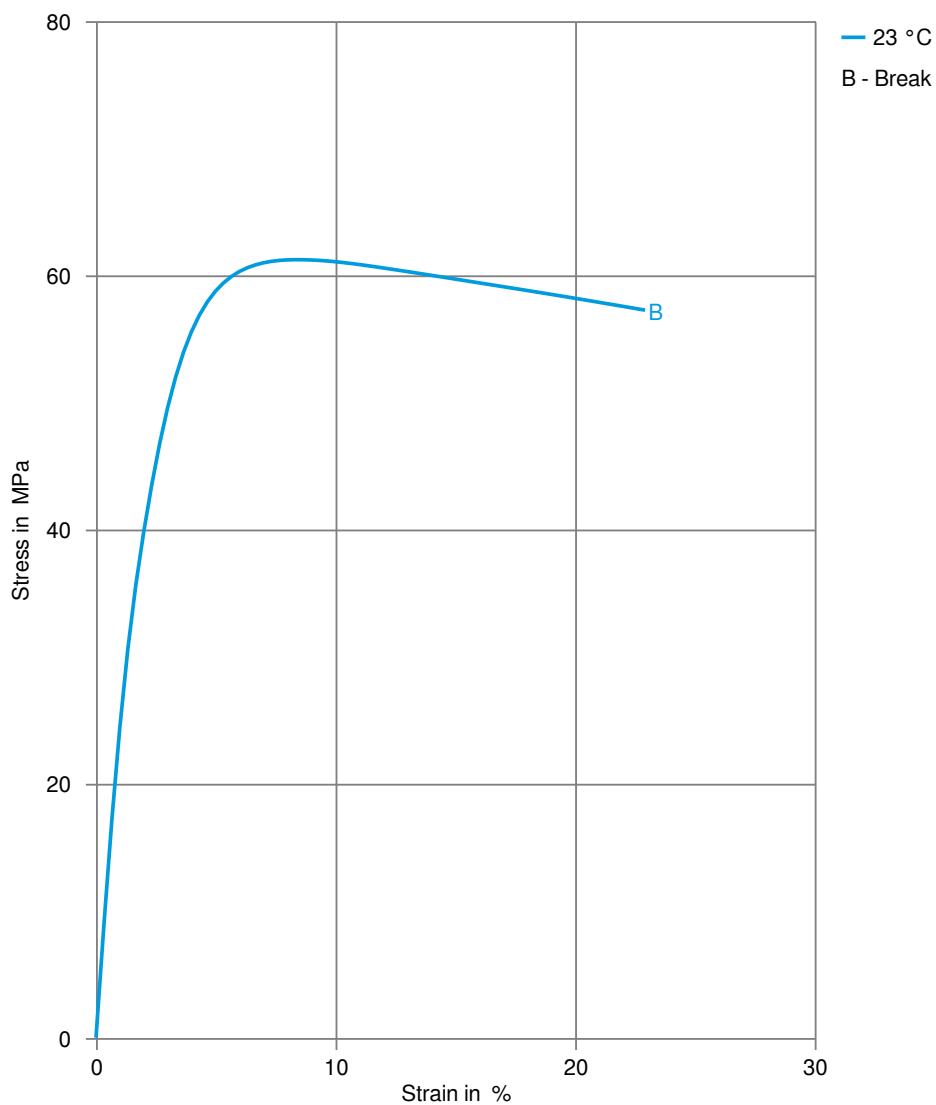
HOSTAFORM® C 27021 AS

Additional information

Injection molding

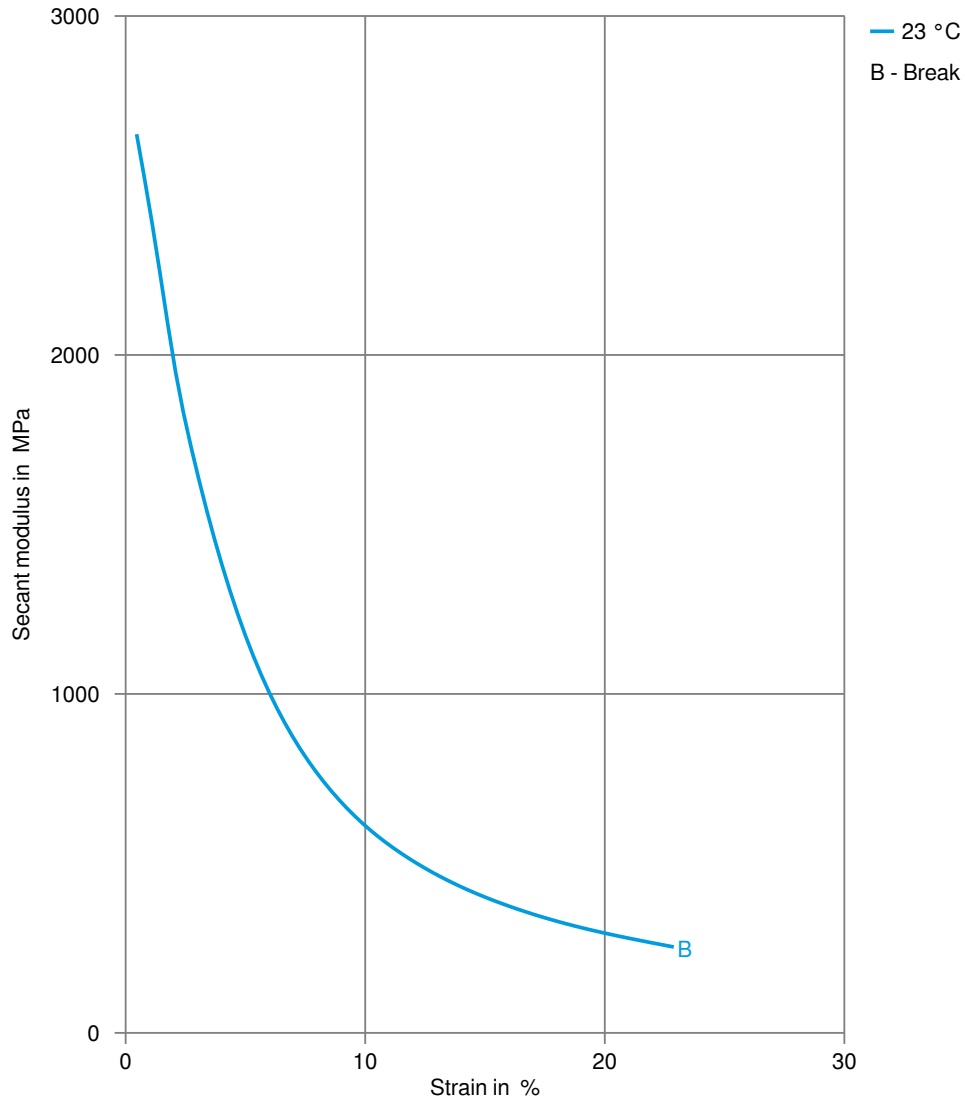
Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Stress-strain



HOSTAFORM® C 27021 AS

Secant modulus-strain



HOSTAFORM® C 27021 AS

Processing Texts

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.