

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 range, parallel | 1.9 % | ISO 294-4, 2577 |
| Moulding shrinkage range, 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

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|---|-----------|----------------|
| 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

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|---------------------|----------|---------------|
| Surface resistivity | 1E12 Ohm | IEC 62631-3-2 |
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Other properties

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

Injection

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

Characteristics

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



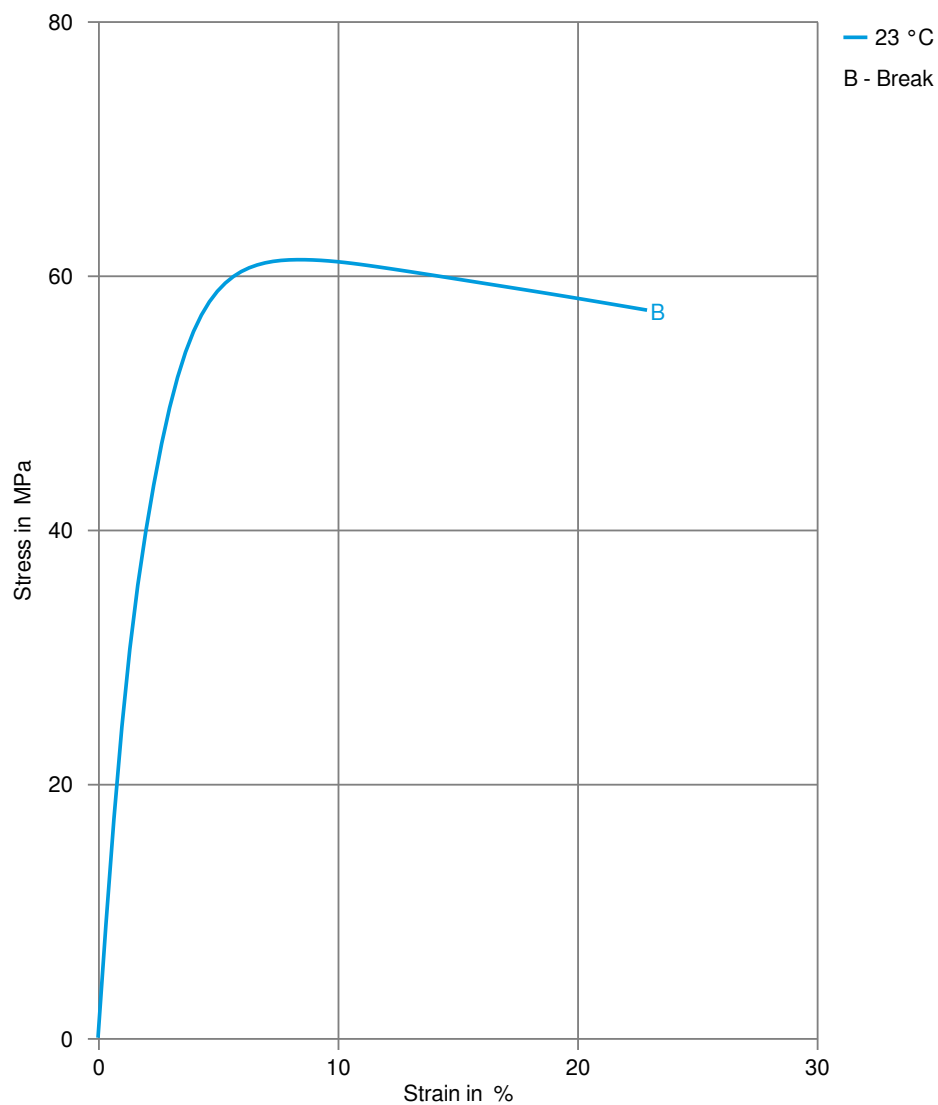
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Additional information

Injection molding

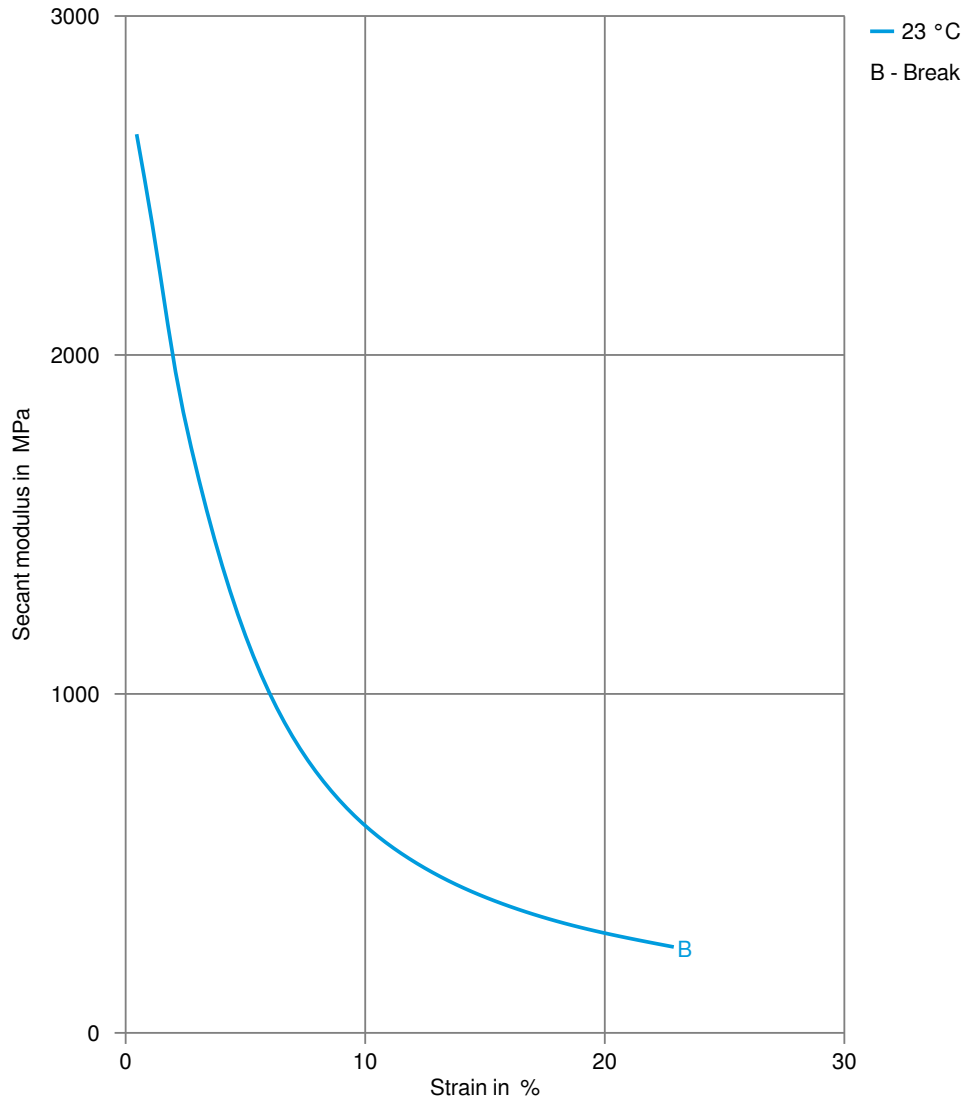
Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Stress-strain



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Secant modulus-strain



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Processing Texts

| | |
|----------------------------------|--|
| Injection molding | Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit. |
| Injection molding Preprocessing | <p>General drying is not necessary due to low moisture absorption of the resin.</p> <p>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.</p> <p>Max. Water content 0,2 %</p> |
| Injection molding Postprocessing | Conditioning e.g. moisturizing is not necessary. |

