

HOSTAFORM® C 9021 FCT1

Friction modified, FDA complaint

This tribological modified grade has a good combination of mechanical properties and tribological properties. The mechanical properties are comparable to Hostaform® C 9021, especially the good weld line strength. This grade is FDA compliant for food contact applications.

Rheological properties

Melt volume-flow rate	8.5 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

Typical mechanical properties

Tensile Modulus	2800 MPa	ISO 527-1/-2
Yield stress, 50mm/min	63 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	30 %	ISO 527-1/-2
Shear Modulus	995 MPa	ISO 6721
Charpy notched impact strength, 23°C	7.5 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
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Other properties

Density	1400 kg/m ³	ISO 1183
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Injection

Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3 - 4 h	
Melt Temperature Optimum	190 °C	Internal

Characteristics

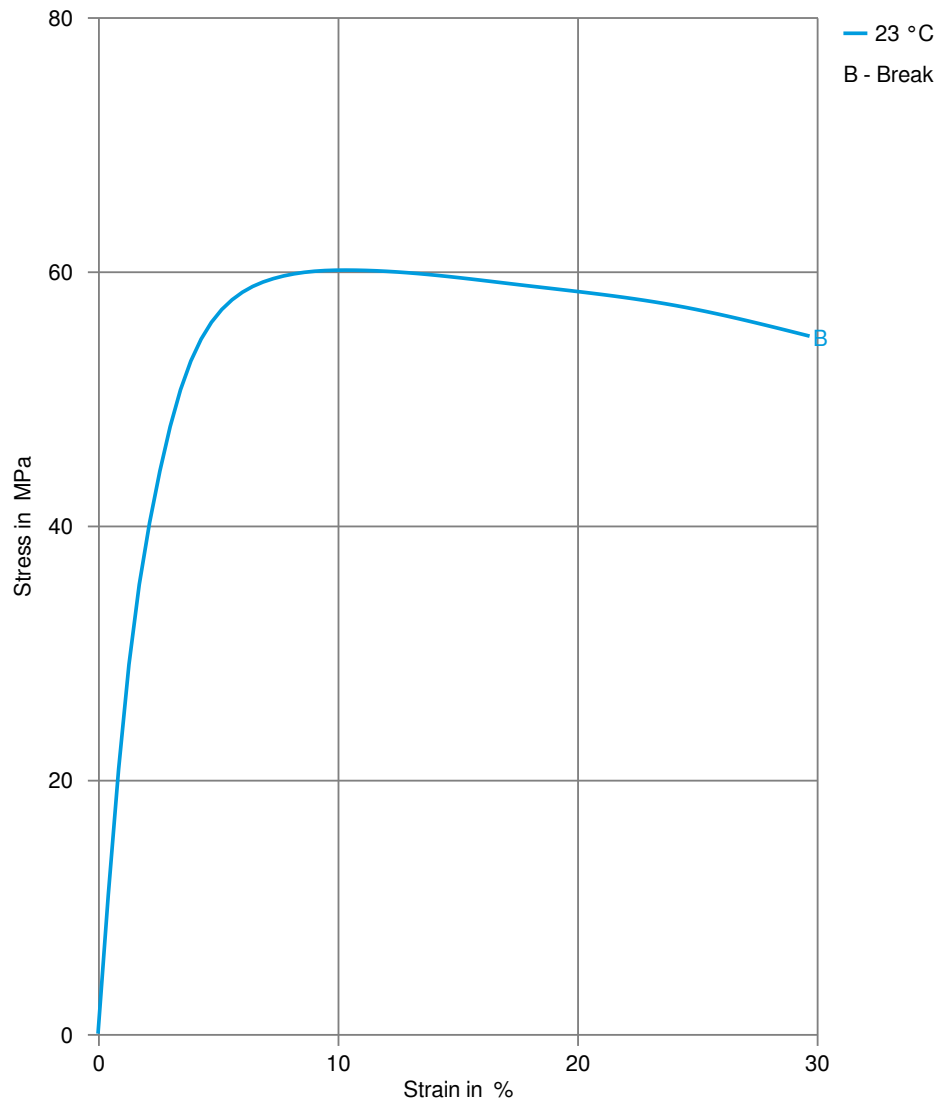
Additives	Release agent
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Additional information

Injection molding	Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.
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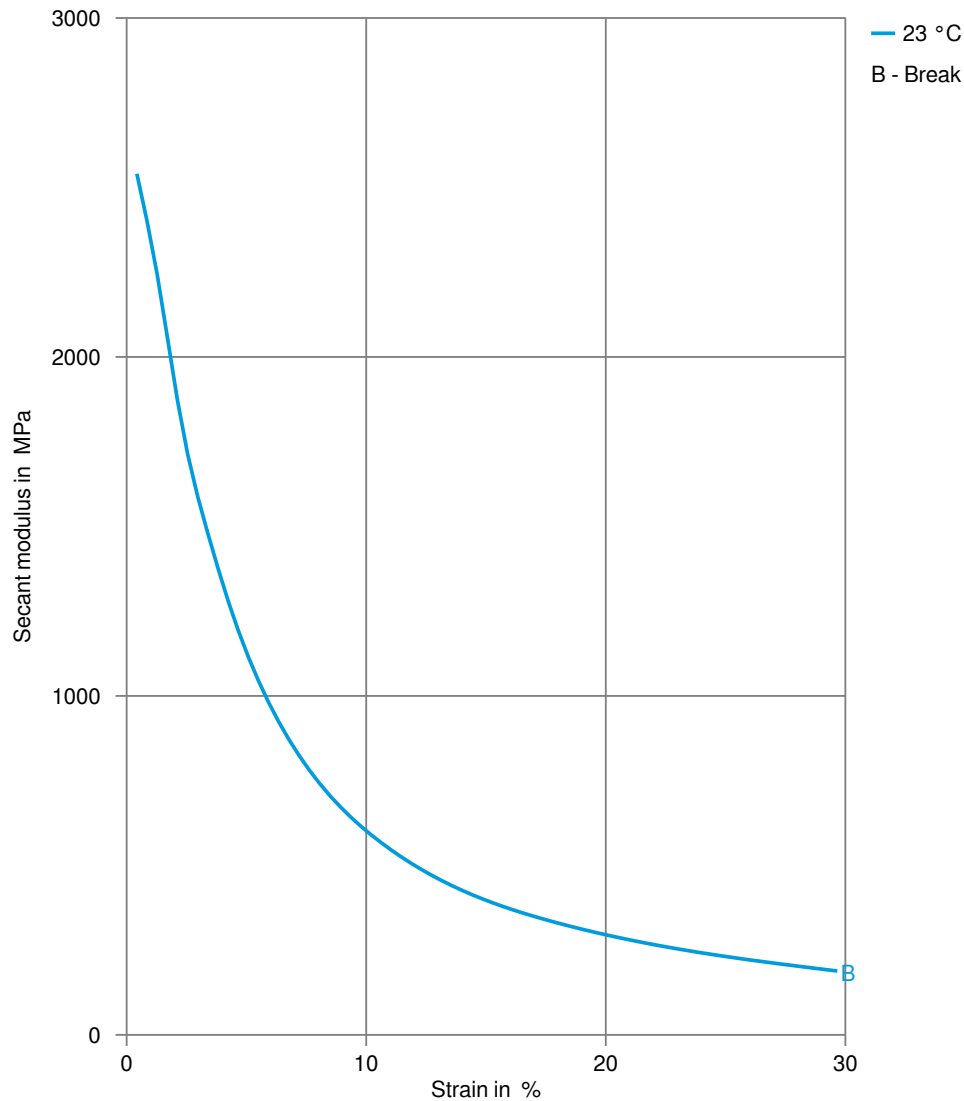
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Stress-strain



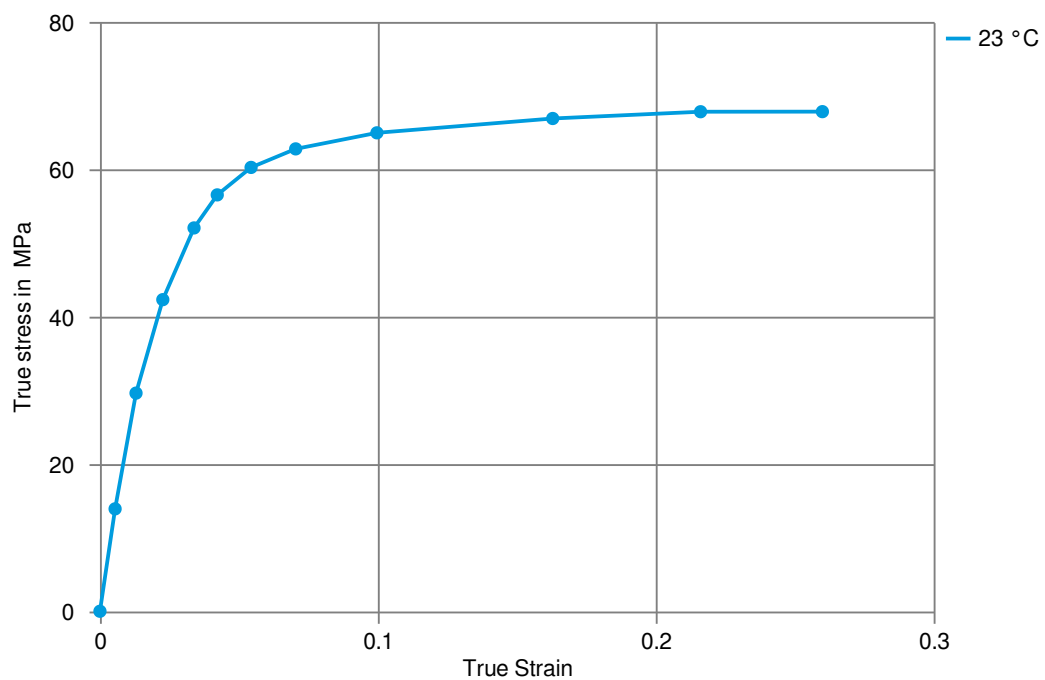
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Secant modulus-strain



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True stress-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.