

# HOSTAFORM® C 9021 XLE

## HOSTAFORM®

POM copolymer injection molding grade with reduced emissions especially for automotive interior application. Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness) Emission according to VDA 275 < 1 mg/kg.

### Product information

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

### Rheological properties

Melt volume-flow rate	8 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

### Typical mechanical properties

Tensile modulus	2700 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 %	ISO 527-1/-2
Tensile strain at break, 50mm/min	30 %	ISO 527-1/-2
Flexural modulus	2650 MPa	ISO 178
Flexural stress at 3.5%	74 MPa	ISO 178
Charpy notched impact strength, 23 °C	6.5 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C	6 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.38 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10 °C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	129 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	131 E-6/K	ISO 11359-1/-2

### Flammability

Burning rate, Thickness 2 mm	34.2 mm/min	ISO 3795 (FMVSS 302)
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### Physical/Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1410 kg/m <sup>3</sup>	ISO 1183

### Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	190 °C
Min. melt temperature	180 °C

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Max. melt temperature	200 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

## Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	Low emissions

## Additional information

Injection molding

## Preprocessing

To achieve low emission values pre drying using a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,1 %

## Processing

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

Melt temperature 180-190 °C  
 Mould temperature 60-120 °C

## Postprocessing

Conditioning e.g. moisturizing is not necessary.

Processing Notes

## Pre-Drying

recommended

## Automotive

OEM  
 Li Auto

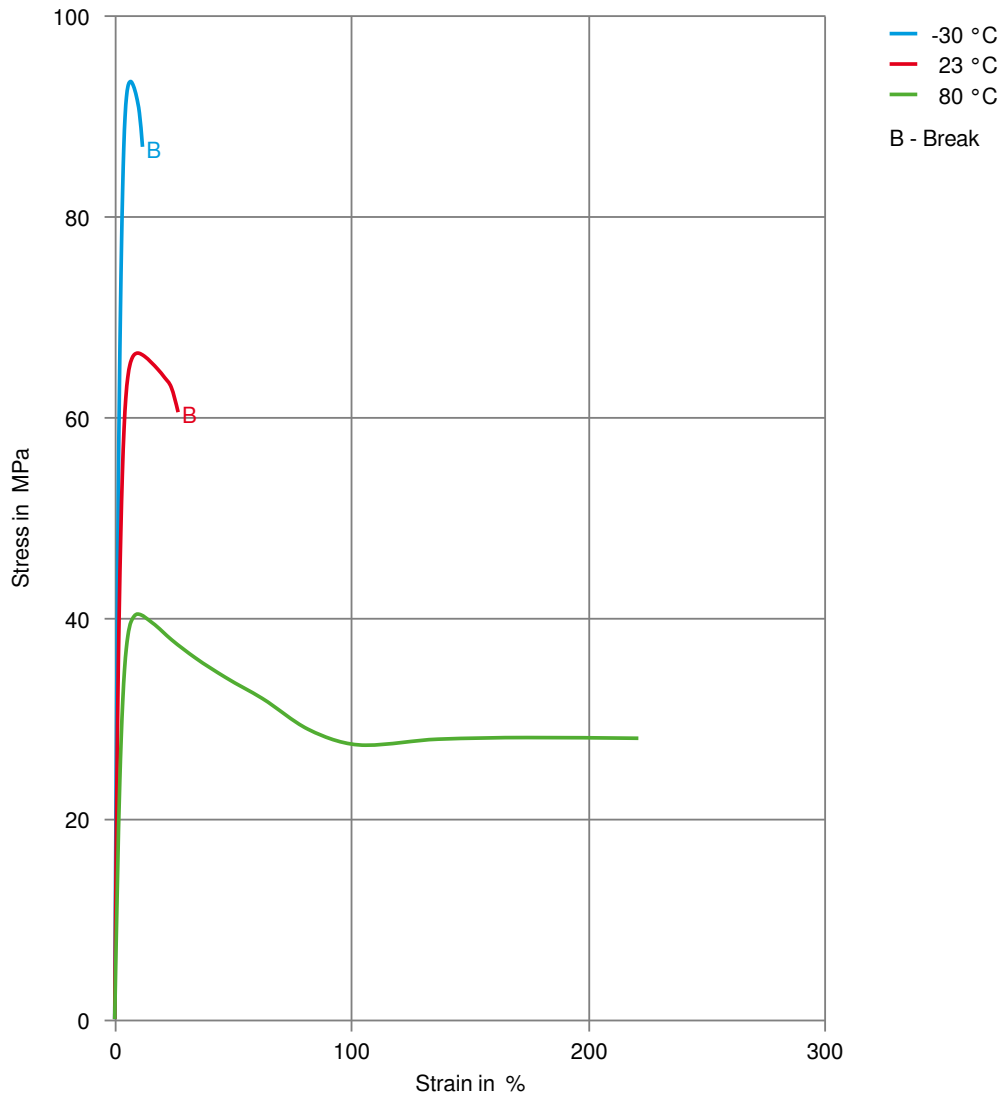
STANDARD  
 Q/LiA5310020

ADDITIONAL INFORMATION  
 2021 (V2)

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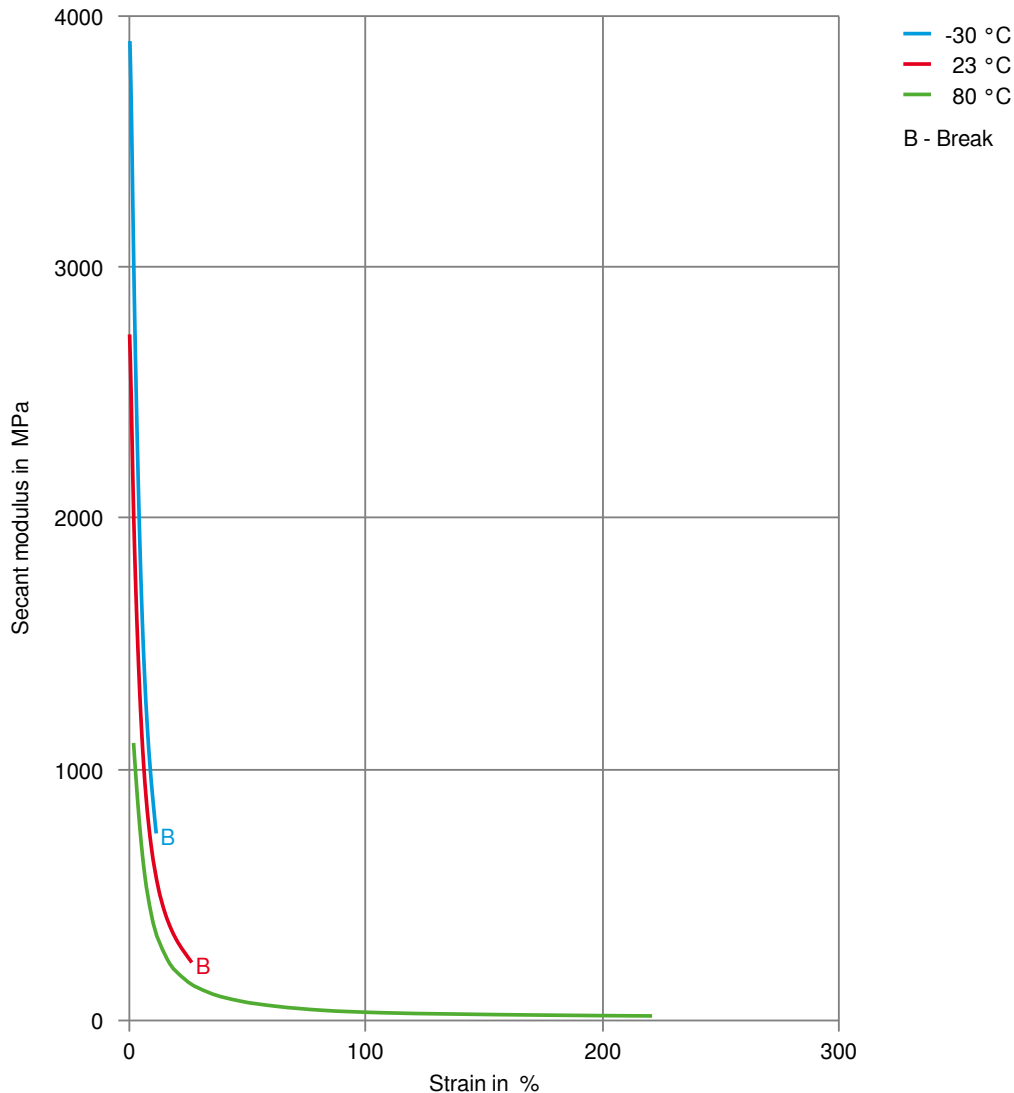
## Stress-strain



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## Secant modulus-strain



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