

HOSTAFORM® C 9021 XAP®2

Low Emission

POM copolymer

Standard 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 < 2 mg/kg (natural grades) Emission according to VDA 275 < 5 mg/kg (colored grades)

Rheological properties

Melt volume-flow rate	8 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	2.0 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2700 MPa	ISO 527-1/-2
Yield stress, 50mm/min	64 MPa	ISO 527-1/-2
Yield strain, 50mm/min	10 %	ISO 527-1/-2
Nominal strain at break	35 %	ISO 527-1/-2
Flexural Modulus	2600 MPa	ISO 178
Tensile creep modulus, 1h	2400 MPa	ISO 899-1
Tensile creep modulus, 1000h	1200 MPa	ISO 899-1
Charpy impact strength, 23°C	220 ^[P] kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	220 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6 kJ/m ²	ISO 179/1eA

[P]: Partial Break

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	104 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	157 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	150 °C	ISO 306
Coeff. of linear therm. expansion, parallel	120 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120 E-6/K	ISO 11359-1/-2

Electrical properties

Relative permittivity, 100Hz	4	IEC 62631-2-1
Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 100Hz	20 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50 E-4	IEC 62631-2-1
Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E14 Ohm	IEC 62631-3-2
Electric strength	35 kV/mm	IEC 60243-1

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Comparative tracking index

PLC 0 PLC

UL 746A

Other properties

Humidity absorption, 2mm

0.2 %

Sim. to ISO 62

Water absorption, 2mm

0.65 %

Sim. to ISO 62

Density

1410 kg/m³

ISO 1183

Injection

Drying Temperature

100 - 120 °C

Drying Time, Dehumidified Dryer

3 - 4 h

Processing Moisture Content

0.15 %

Screw tangential speed

0.2 - 0.21 m/s

Max. mould temperature

80 - 120 °C

Back pressure

4 MPa

Injection speed

slow-medium

Characteristics

Additives

Release agent

Additional information

Injection molding

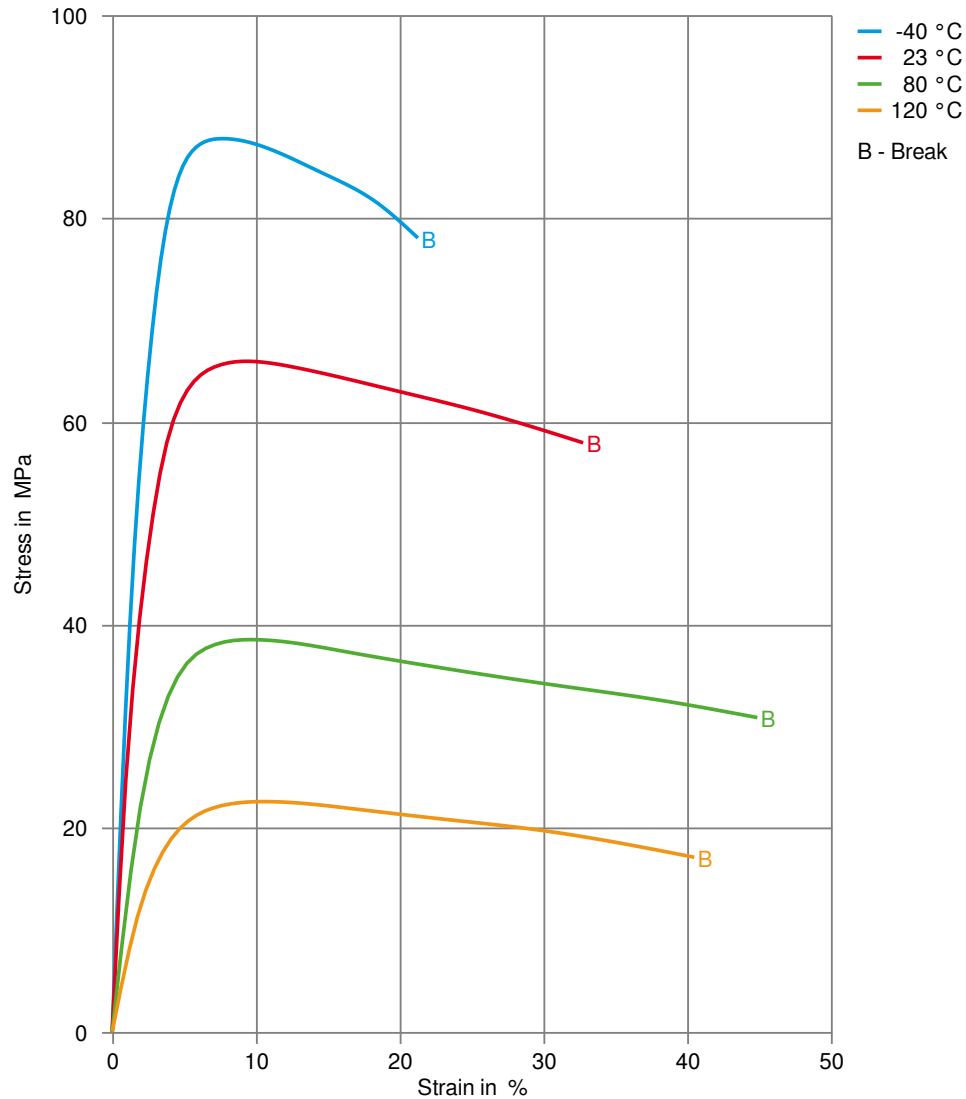
Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Melt temperature 180-190 °C

Mould temperature 60-120 °C

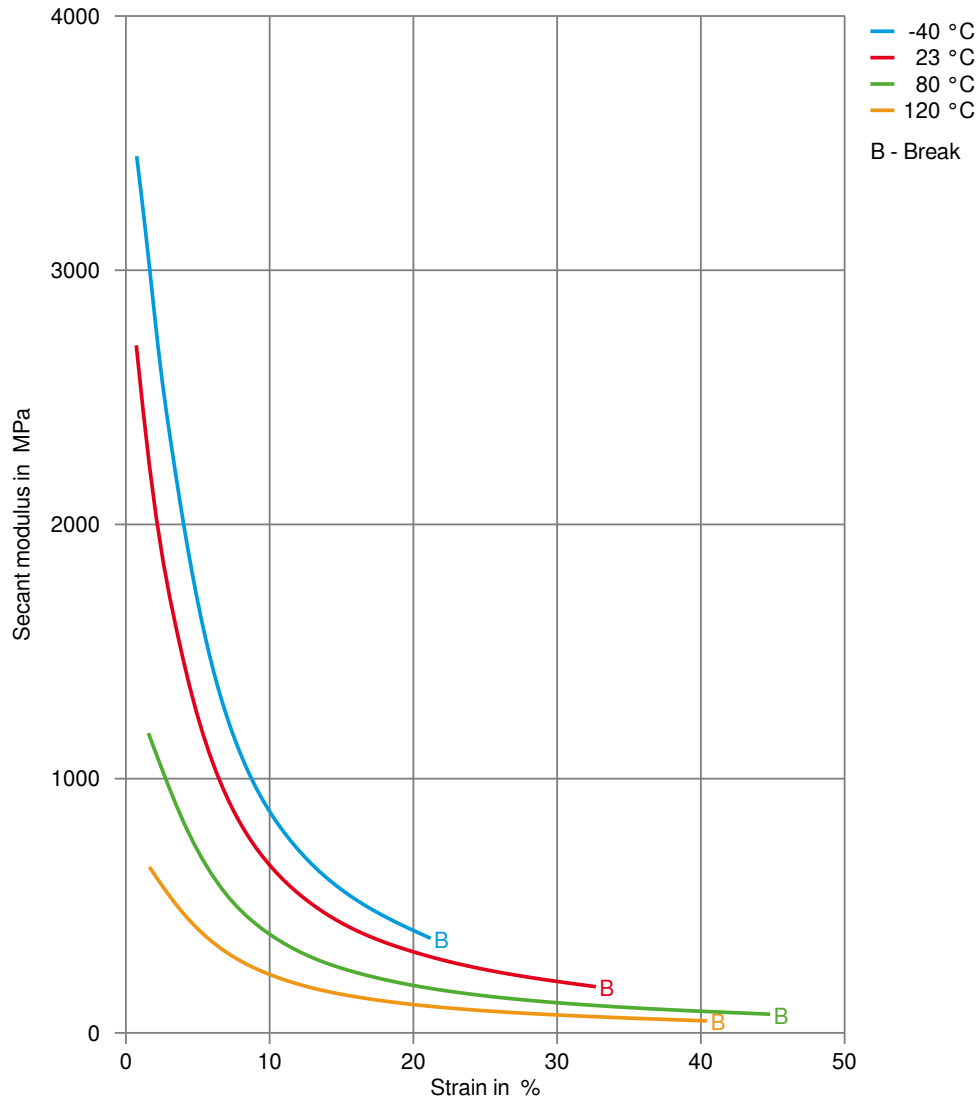
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Stress-strain



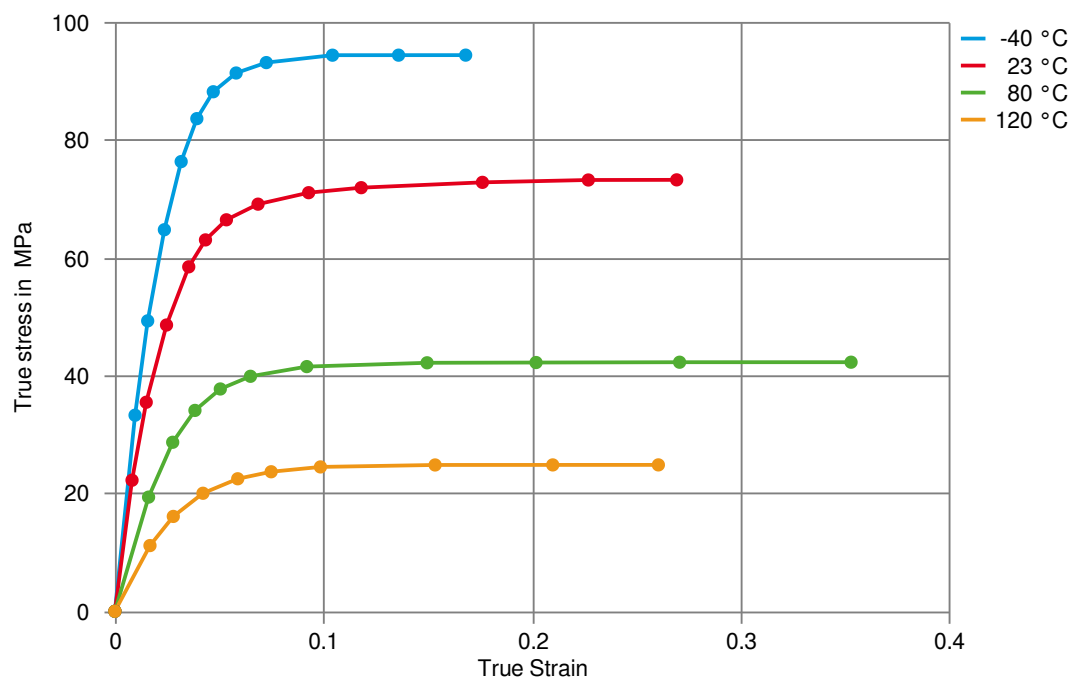
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Secant modulus-strain



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True stress-strain



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Processing Texts

Pre-drying	recommended
Injection molding	<p>Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.</p> <p>Melt temperature 180-190 °C Mould temperature 60-120 °C</p>
Injection molding Preprocessing	<p>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.</p> <p>Max. Water content 0,1 %</p>
Injection molding Postprocessing	Conditioning e.g. moisturizing is not necessary.

Other Approvals

Other Approvals	OEM	Specification	Additional Information
	Mercedes-Benz Group (Daimler)	DBL 5404	BQF
	Mercedes-Benz Group (Daimler)	DBL 5410	Black
	Dongfeng Motor	SLCLBG2018035	
	Ford	WSK-M4D635-A2	
	GM	GMW17008P-POM-C2	
	Stellantis - Chrysler	CPN 1586	Black
	Stellantis - Chrysler	CPN 1532	Natural
	Li Auto	Q/LiA5310020	2019 (V1)
	Renault	EP03-3	PMR2020
	Renault	IP13f	PMR2020
	Renault	IP13g	PMR2020
	Renault	UB15	PMR2020
	VW Group	TL 524 76	Black

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