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HOSTAFORM® C 9021 XAP®2

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

Product information

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

Rheological properties

Melt volume-flow rate	8	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.0[1]	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.9[1]	%	ISO 294-4, 2577

[1]: @ 195°C

Typical mechanical properties

Tensile modulus	2700	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	64	MPa	ISO 527-1/-2
Tensile strain at yield, 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
Poisson's ratio	0.38[C]		

[P]: Partial Break

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	104	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	157	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	120	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), 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

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Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112

Physical/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 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
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 achive 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

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Postprocessing

Conditioning e.g. moisturizing is not necessary.

Processing Notes

Pre-Drying

recommended

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Chery	Q/SQR S1-19-2023	
Dongfeng Motor	SLCLBG2018035	
Ford	WSK-M4D635-A2	
Geely	Q/JLY J7110235B-2018(2)	
General Motors	GMW17008P-POM-C2	Black
General Motors	GMW17008P-POM-C2	NATURAL
Li Auto	Q/LiA5310020	2019 (V1)
Mercedes-Benz	DBL5404	BQF
Mercedes-Benz	DBL5410	Black
Renault	EP03-3, PMR2020, No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	IP13f, PMR2020,No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	IP13g, PMR2020, No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB15, PMR2020, No Spec, Special Part Approval, See Your CE Account Manager.	
Stellantis	MS.50210 / POM-C.2400F.5C.MF	Technical Black;CPN1586 BLACK, CPN1532 NATURAL, 01994_14_00056
Stellantis	MS.50210 / POM-C.2400F.5C.MF	Natural;01994_14_00056
Stellantis	MS.50210 / POM-C.2400F.5C.MF	100% Color Match;01994_14_00056
Stellantis - Chrysler	MS.50095 / CPN-1532	Natural;ASTMD6778POM0213
Stellantis - Chrysler	MS.50095 / CPN-1586	Black;ASTMD6778POM0213
VW Group	TL 524 76	Black

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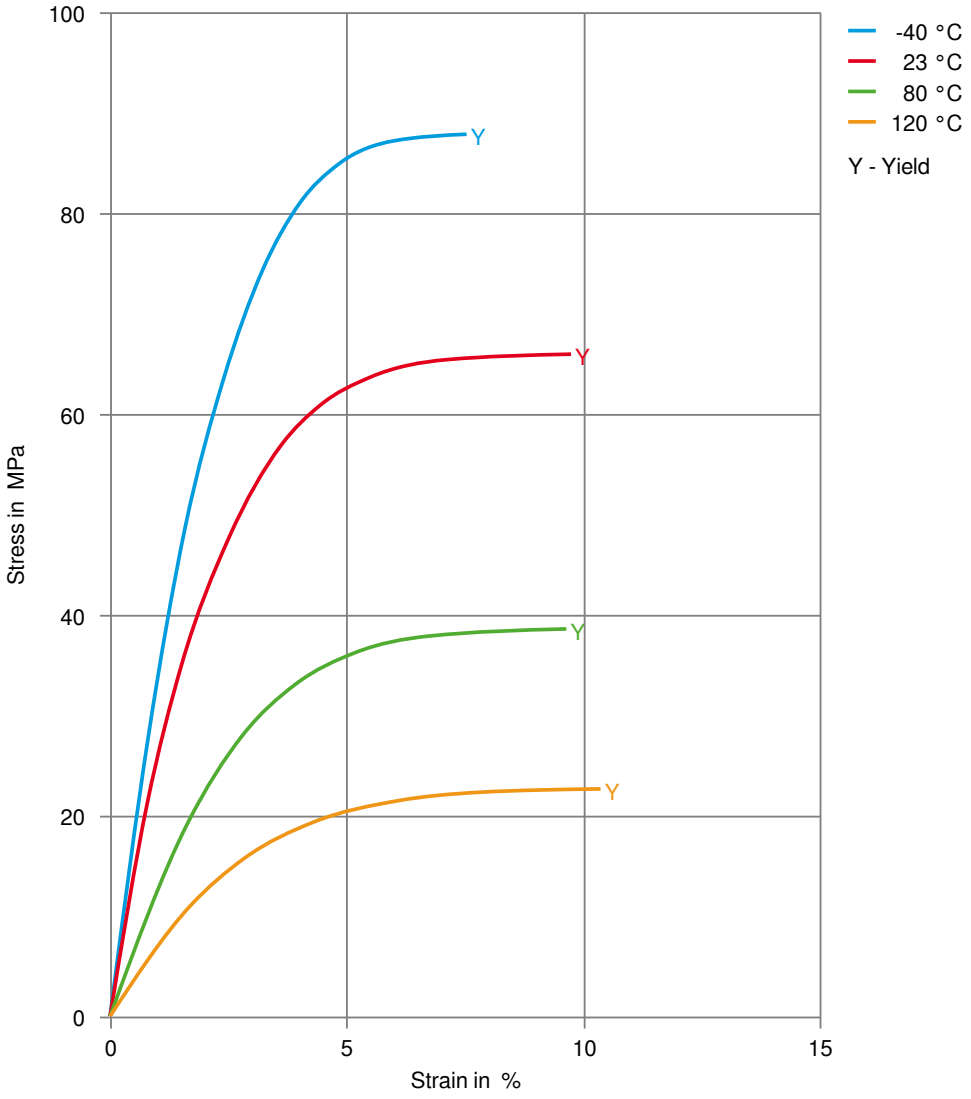
Stress-strain



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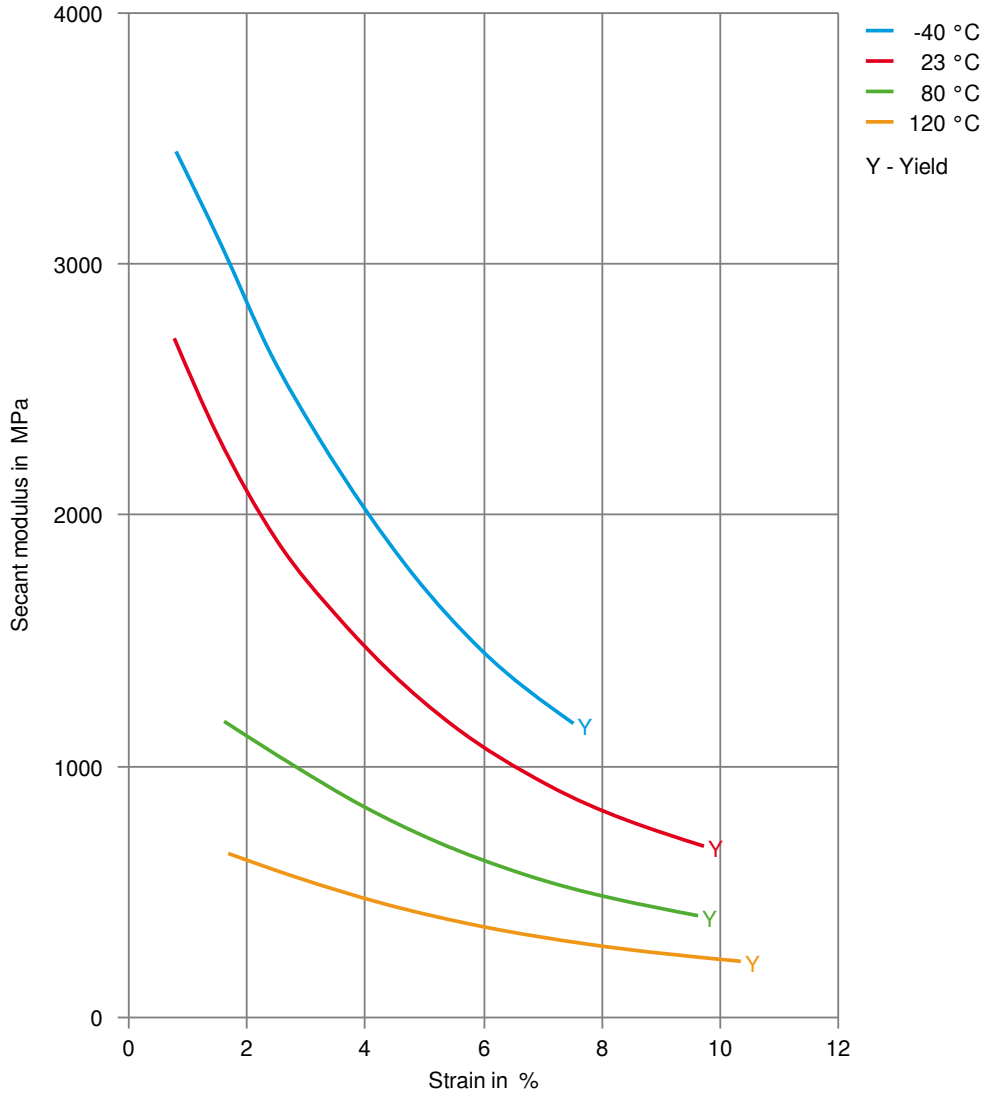
Secant modulus-strain



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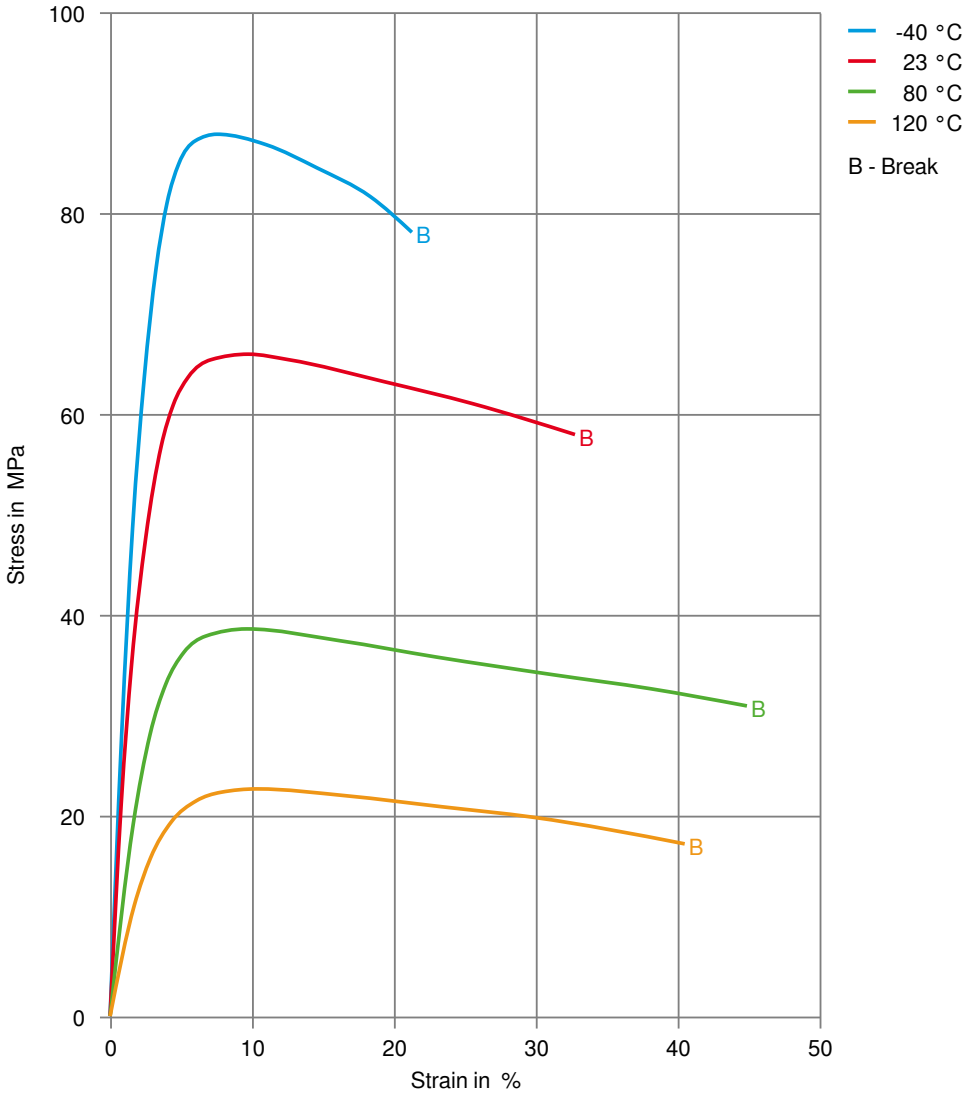
Stress-strain, 50mm/min



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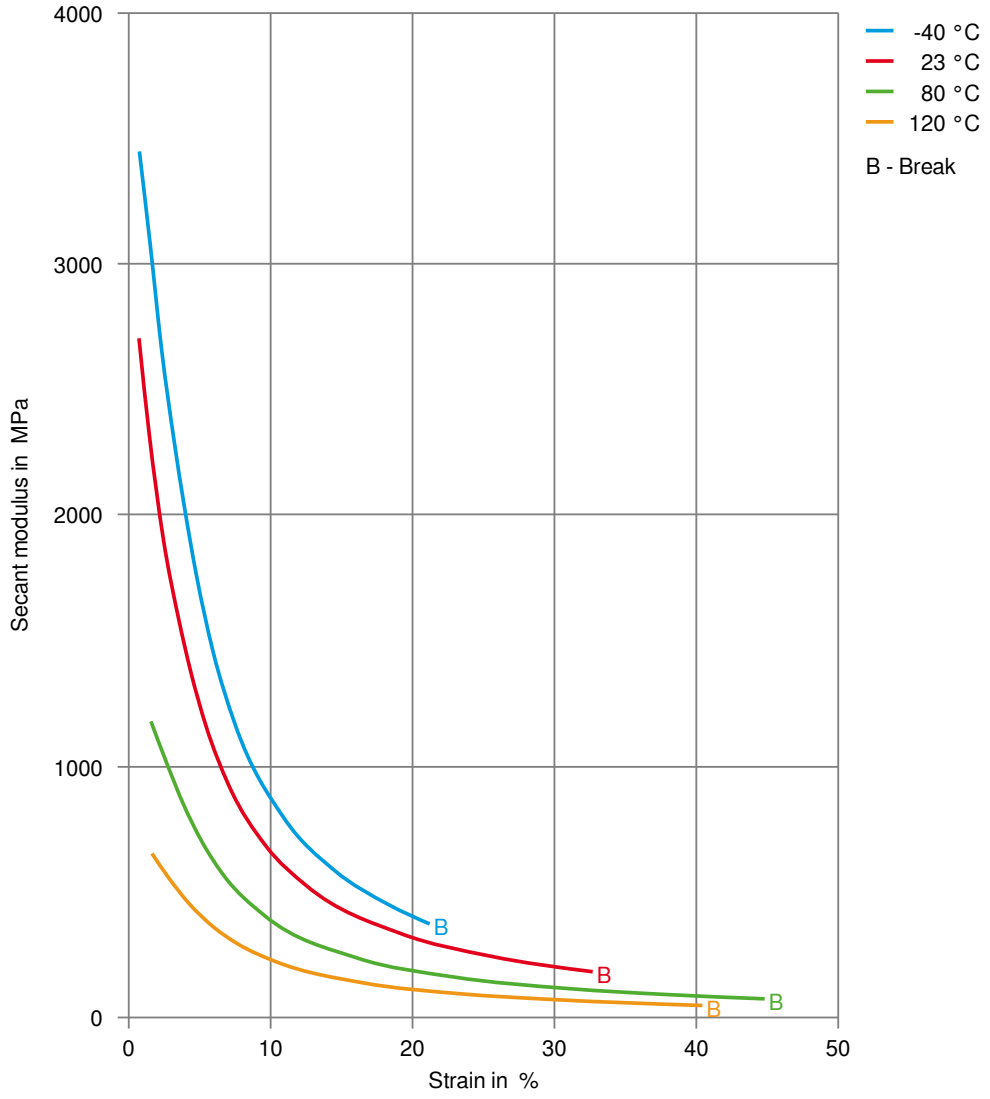
Secant modulus-strain, 50mm/min



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