

POM copolymer injection molding grade with medium flow and reduced emissions especially for automotive interior application. Good properties as high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation are maintained Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. VDA 275 Emissions < 10 ppm Ranges of applications: automotive engineering, FMVSS = Federal Motor Vehicle Safety Standard (USA) ECO-B: Hostaform® ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

### **Product information**

Product information			
Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate Temperature Load	8 190 2.16		ISO 1133
Moulding shrinkage, parallel Moulding shrinkage, normal	2.0 1.9	%	ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Nominal strain at break Flexural modulus Flexural strength Tensile creep modulus, 1h Tensile creep modulus, 1000h Charpy impact strength, 23°C Charpy impact strength, -30°C Charpy notched impact strength, -30°C Charpy notched impact strength, -30°C Ball indentation hardness, H 358/30 Poisson's ratio [C]: Calculated	9 30 2700 89 2500 1300 220 220 6.5 6	MPa % MPa MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 899-1 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 2039-1
Thermal properties Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel	166 104 110		ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal Thermal conductivity of melt Effective thermal diffusivity, flow Specific heat capacity of melt	0.155 4.85E-8	E-6/K W/(m K) m²/s J/(kg K)	ISO 11359-1/-2 ISO 22007-2 ISO 22007-4 ISO 22007-4

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(+) **18816996168** Ponciplastics.com



# HOSTAFORM<sup>®</sup> C 9021 XAP<sup>®</sup> ECO-B HOSTAFORM®

**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
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/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	200	°C	
Min. melt temperature	190	°C	
Max. melt temperature	210	°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	
Ejection temperature	140	°C	

### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	Low emissions
Sustainability	Bio-Content

### Additional information

Injection molding

### Preprocessing

To achive low emission values pre drying using a recirculating air dryer (100 to 120  $^{\circ}$ C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,1 %

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### Processing

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

### Postprocessing

Conditioning e.g. moisturizing is not necessary.

**Processing Notes** 

#### Pre-Drying

It is normally not necessary to dry HOSTAFORM. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this purpose if the granul

### Storage

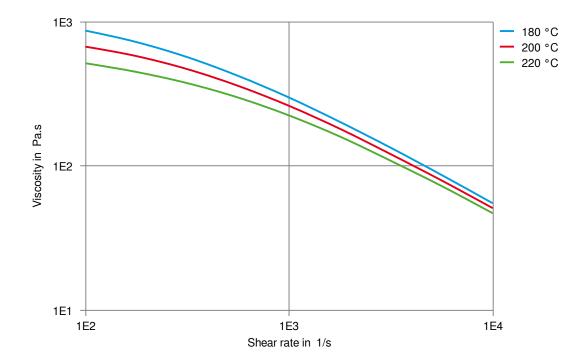
The product can then be stored in standard conditions until processed.

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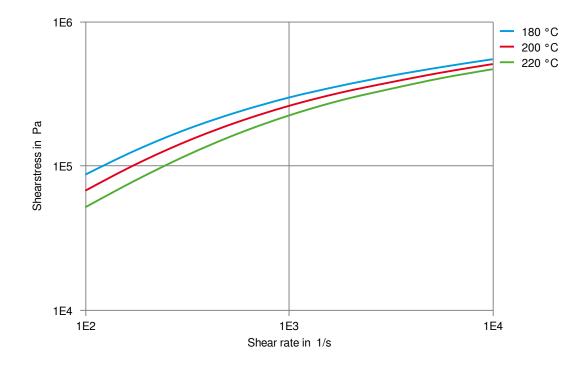
Viscosity-shear rate







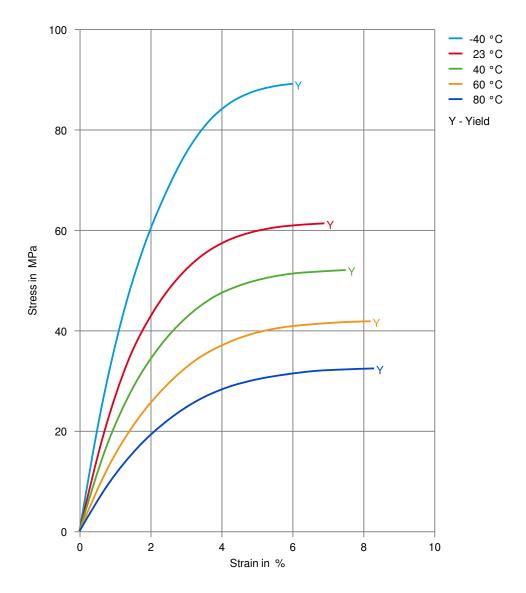
#### Shearstress-shear rate







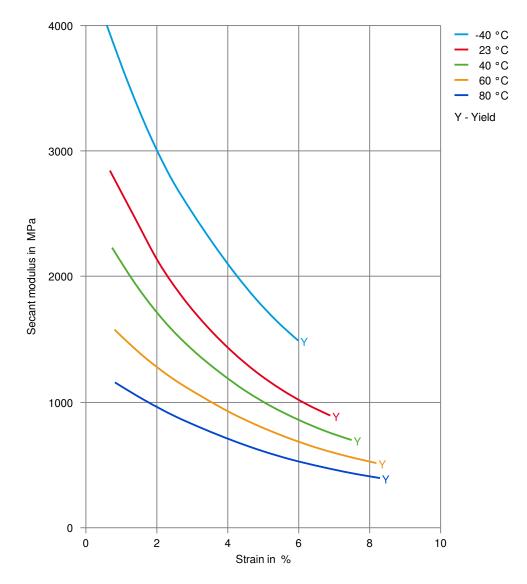
### Stress-strain







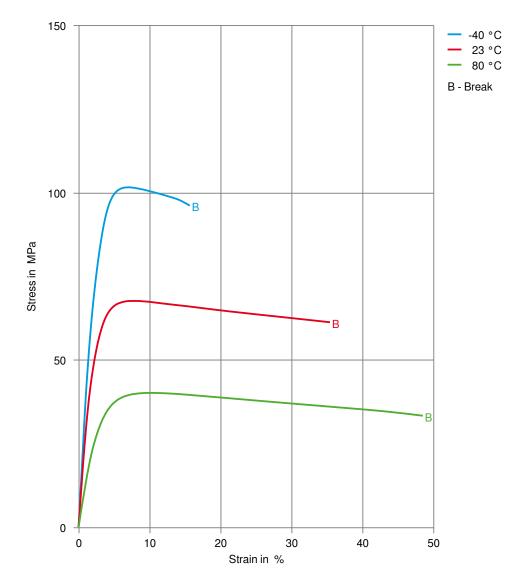
### Secant modulus-strain







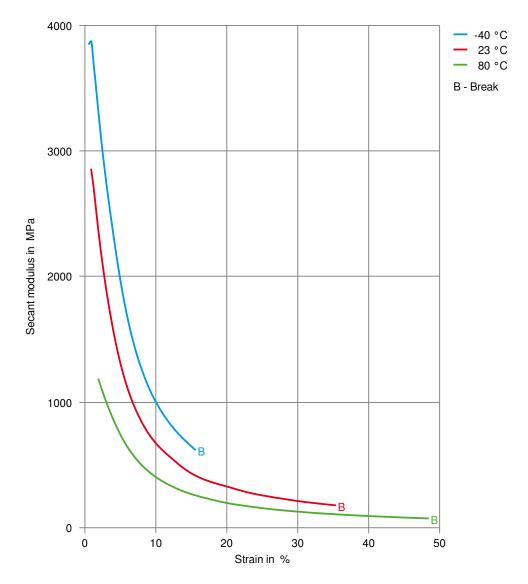
### Stress-strain, 50mm/min







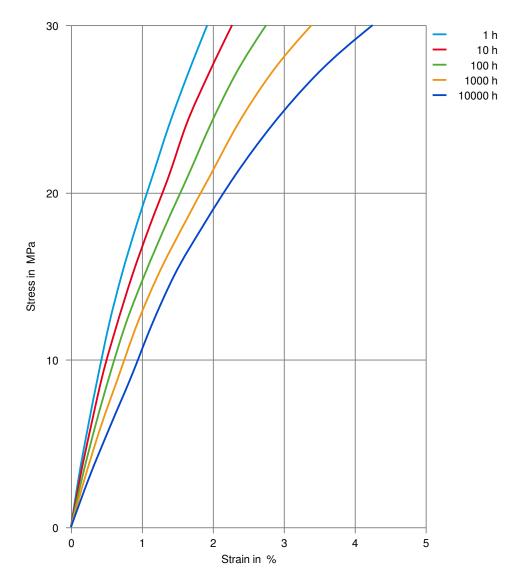
### Secant modulus-strain, 50mm/min







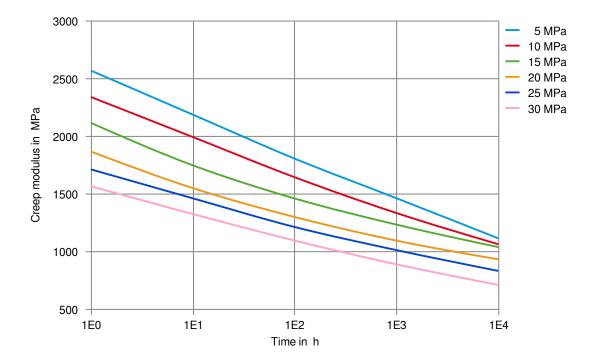
### Stress-strain (isochronous) 23°C







#### Creep modulus-time 23°C



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