

# HOSTAFORM® S 9243 XAP®2 ECO-C 772

## HOSTAFORM®

POM copolymer, modified Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than unmodified acetal copolymer. Reduced emission grade, Emission according to VDA 275 < 5 mg/kg good weld strength. Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness).

ECO-C: Hostaform® POM S 9243 XAP®2 ECO-C 772 incorporates circular content derived from captured carbon dioxide emissions in the finished product through mass balance allocation. The product is a drop-in replacement to the standard grade with the same performance and processing properties and contributes to the displacement of virgin fossil fuel resources. The feedstock utilizing captured carbon dioxide emissions are ISCC CFC certified as low carbon intensity methanol.

### Product information

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

### Rheological properties

Melt volume-flow rate	4 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.9 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.8 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	1950 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	44 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	40 %	ISO 527-1/-2
Flexural modulus	1850 MPa	ISO 178
Tensile creep modulus, 1h	1700 MPa	ISO 899-1
Tensile creep modulus, 1000h	950 MPa	ISO 899-1
Charpy impact strength, 23°C	N kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	200 <sup>[P]</sup> kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	15 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	9 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.45	

[P]: Partial Break

### Thermal properties

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

### Electrical properties

Relative permittivity, 100Hz	3.8	IEC 62631-2-1
Relative permittivity, 1MHz	3.8	IEC 62631-2-1
Dissipation factor, 100Hz	30 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	60 E-4	IEC 62631-2-1
Volume resistivity	1E11 Ohm.m	IEC 62631-3-1

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Surface resistivity	1E13 Ohm	IEC 62631-3-2
Comparative tracking index	600	IEC 60112

### Physical/Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	1 %	Sim. to ISO 62
Density	1330 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	195 °C
Min. melt temperature	190 °C
Max. melt temperature	200 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	60 °C
Max. mould temperature	80 °C
Hold pressure range	60 - 120 MPa
Back pressure	2 MPa

### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	High impact or impact modified, Low emissions, Improved weld line
Sustainability	Carbon Capture

### Additional information

Processing Notes

#### Pre-Drying

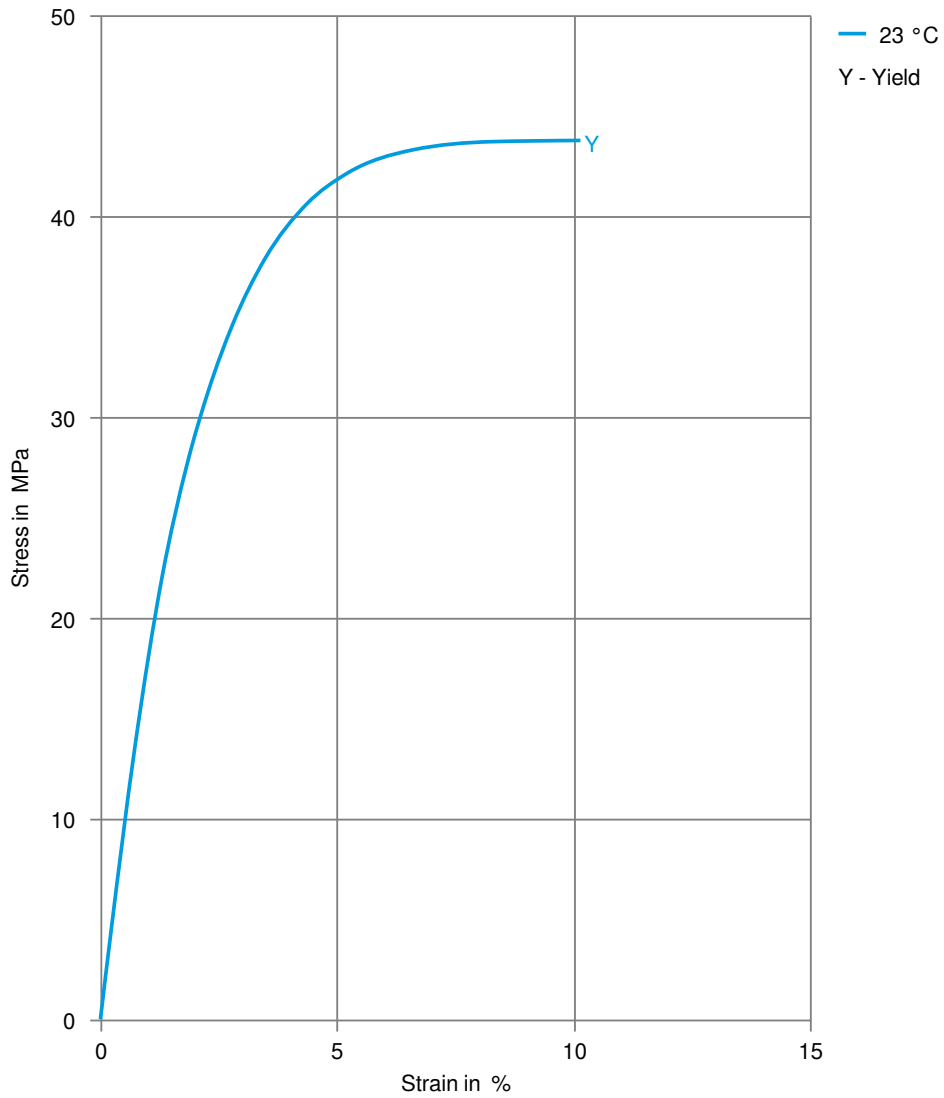
It is normally not necessary to dry HOSTAFORM. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this purpose if the granules

#### Storage

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

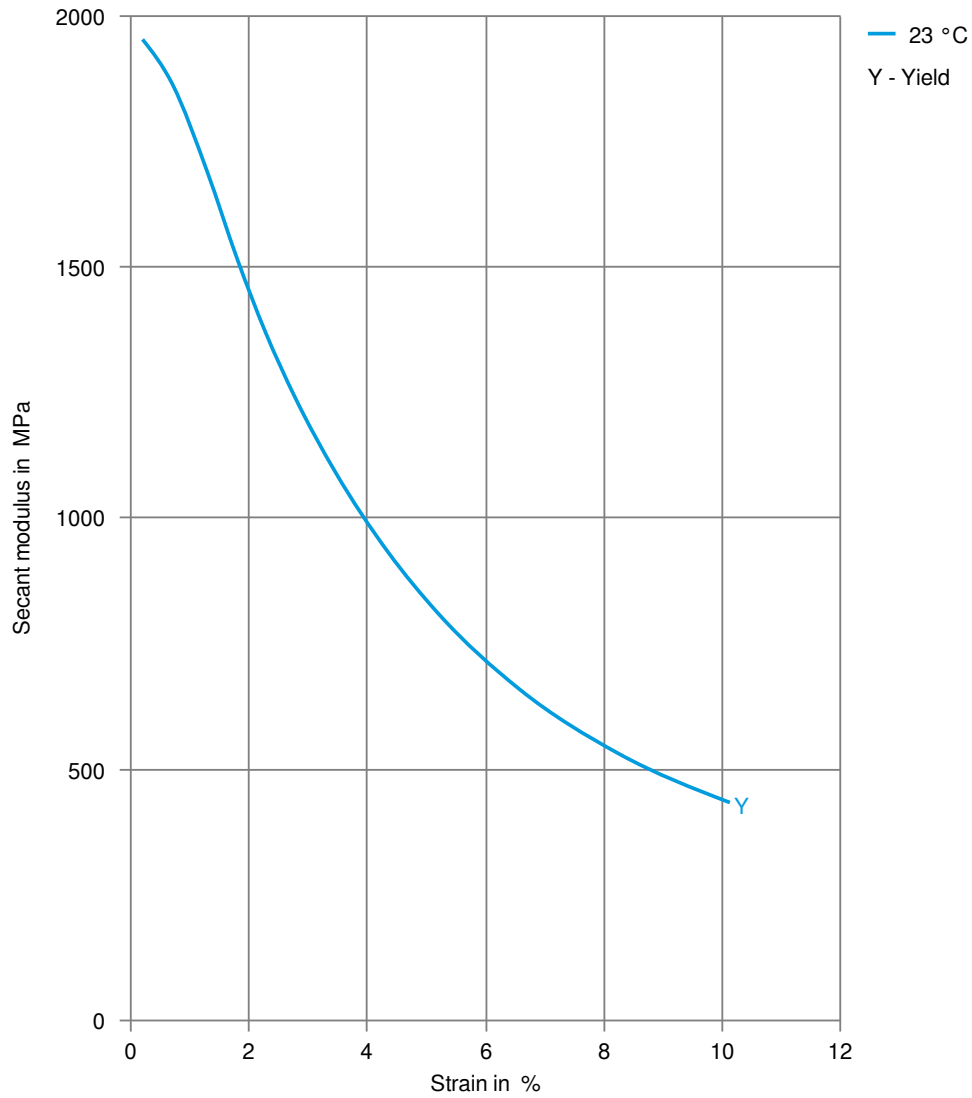
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Stress-strain



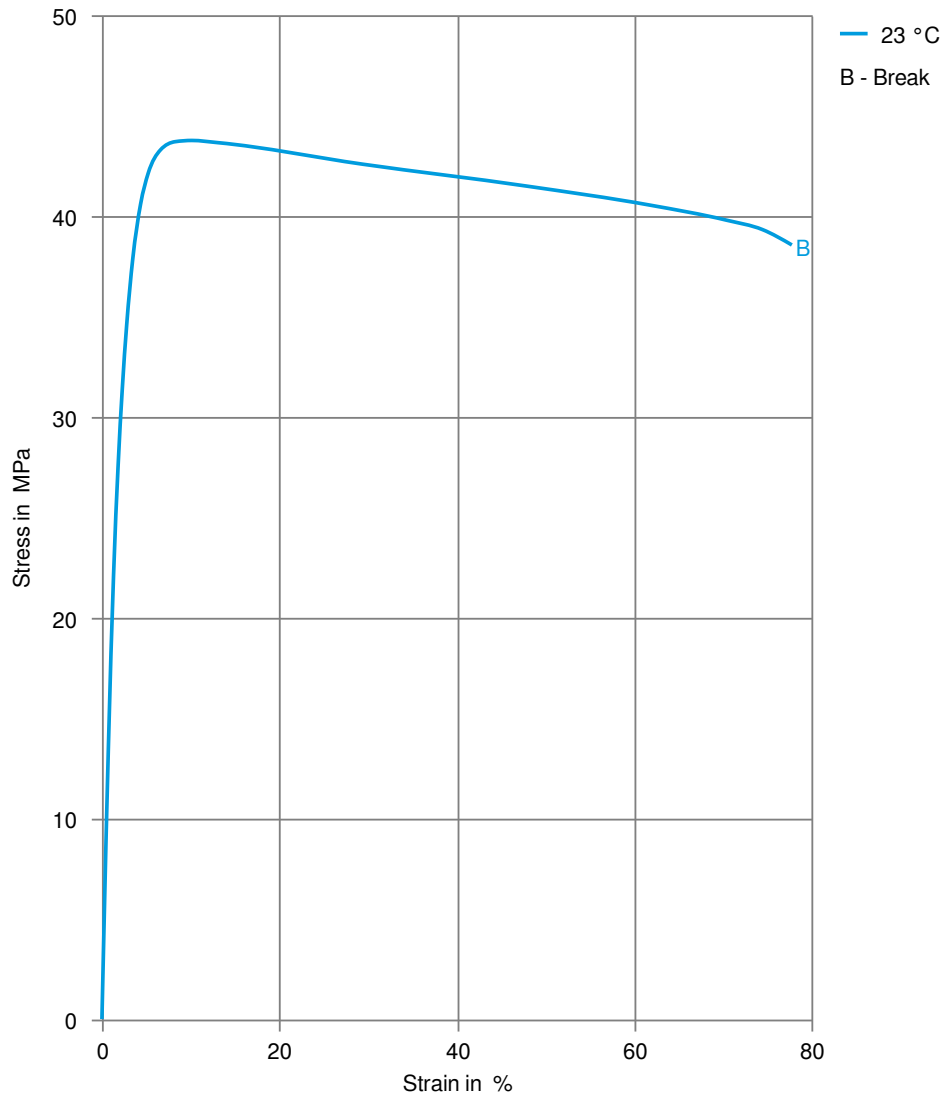
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Secant modulus-strain



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Stress-strain, 50mm/min



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

