

## HOSTAFORM® S 9243 XAP®2 - POM

### Description

POM copolymer, modified Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type HOSTAFORM® C 9021 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) Preliminary Datasheet

Physical properties	Value	Unit	Test Standard
Density	1330	kg/m <sup>3</sup>	ISO 1183
Melt volume rate, MVR	4	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2.16	kg	ISO 1133
Molding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
Water absorption, 23°C-sat	1	%	ISO 62
Humidity absorption, 23°C/50%RH	0.2	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1950	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	44	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	9	%	ISO 527-2/1A
Tensile nominal strain at break, 50mm/min	40	%	ISO 527-2/1A
Tensile creep modulus, 1h	1700	MPa	ISO 899-1
Tensile creep modulus, 1000h	950	MPa	ISO 899-1
Flexural modulus, 23°C	1850	MPa	ISO 178
Charpy impact strength, 23°C	NB	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

P: Partial Break

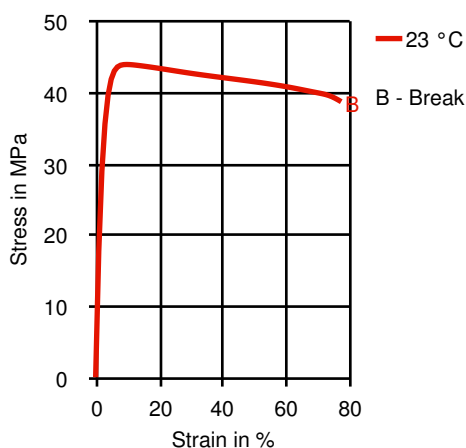
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	75	°C	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	130	°C	ISO 306
Coeff. of linear therm expansion, parallel	1.2	E-4/°C	ISO 11359-2

Electrical properties	Value	Unit	Test Standard
Dielectric constant (Dk), 100Hz	3.8	-	IEC 60250
Dielectric constant (Dk), 1MHz	3.8	-	IEC 60250
Dissipation factor, 100Hz	30	E-4	IEC 60250
Dissipation factor, 1MHz	60	E-4	IEC 60250
Volume resistivity	1E11	Ohm*m	IEC 60093
Surface resistivity	1E13	Ohm	IEC 60093
Comparative tracking index	600	-	IEC 60112

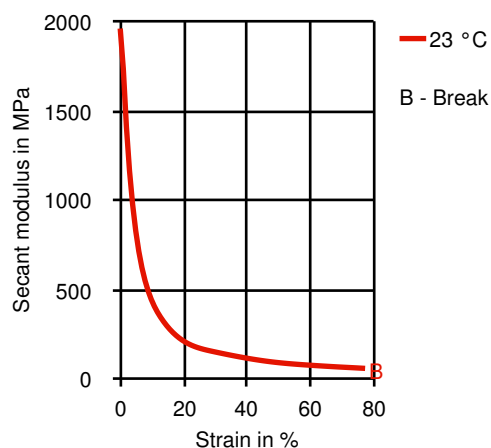
# HOSTAFORM® S 9243 XAP®2 - POM

## Diagrams

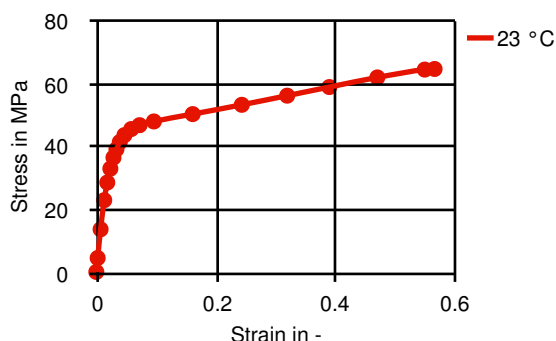
Stress-strain



Secant modulus-strain



True Stress-strain



## Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.15	%	-
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Hopper temperature	20 - 30	°C	-
Feeding zone temperature	60 - 80	°C	-
Zone1 temperature	170 - 180	°C	-
Zone2 temperature	180 - 190	°C	-
Zone3 temperature	190 - 200	°C	-
Zone4 temperature	190 - 200	°C	-
Nozzle temperature	190 - 200	°C	-
Melt temperature	190 - 200	°C	-
Mold temperature	60 - 80	°C	-
Hot runner temperature	190 - 200	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	20	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow-medium	-	-
Screw Speed	Value	Unit	Test Standard
Screw speed diameter, 25mm	150	RPM	-
Screw speed diameter, 40mm	100	RPM	-
Screw speed diameter, 55mm	70	RPM	-

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### Other text information

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#### 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 granule

#### Longer pre-drying times/storage

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

### Characteristics

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#### Product Categories

Impact modified

#### Delivery Form

Pellets

#### Processing

Injection molding

#### Additives

Release agent

### Contact Information

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### General Disclaimer

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