

# HOSTAFORM® C 9021 MD

## HOSTAFORM®

Hostaform® C 9021 MD is a special modified acetal copolymer based on Hostaform® C 9021 for parts which should be identified by metal detectors. Preliminary Datasheet

### Product information

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

### Rheological properties

Melt volume-flow rate	8.5 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

### Typical mechanical properties

Tensile modulus	2800 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	58 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9.5 %	ISO 527-1/-2
Flexural modulus	2700 MPa	ISO 178
Charpy impact strength, 23°C	95 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	4.5 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4.4 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.37 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	97 °C	ISO 75-1/-2

### Electrical properties

Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E13 Ohm	IEC 62631-3-2

### Physical/Other properties

Density	1480 kg/m <sup>3</sup>	ISO 1183
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### 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

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Hold pressure range

60 - 120 MPa

### Characteristics

Processing

Injection Moulding

Delivery form

Pellets

Additives

Release agent

### Additional information

Injection molding

#### Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

#### Processing

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

#### Postprocessing

Conditioning e.g. moisturizing is not necessary.