HOSTAFORM® C 9021 MD

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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-MEF(x)6		ISO 1043
Part Marking Code	>POM-MEF(x)6<		ISO 11469

Rheological properties

Melt volume-flow rate	8.5	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	

Typical mechanical properties

Tensile modulus	406000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9.5	%	ISO 527-1/-2
Flexural modulus	392000	psi	ISO 178
Charpy impact strength, 23°C	45.2	ftlb/in^2	ISO 179/1eU
Charpy notched impact strength, 23°C	2.14	ftlb/in^2	ISO 179/1eA
Charpy notched impact strength, -30°C	2.09	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	207	°F	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	0.0534	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	392	°F
Min. melt temperature	374	°F
Max. melt temperature	410	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Hold pressure range	8700 - 17400	psi

Revised: 2025-07-10 Source: Celanese Materials Database

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Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3 s

Characteristics

Processing	Injection Molding
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.

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