

**Product Texts**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 03-002, K5 POM copolymer Injection molding type, with special chalk modified; good wear properties; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. UL-registration in natural and a thickness more than 1.57 mm as UL 94 HB, temperature index UL 746 B electrical 105 °C, mechanical 90 °C (tensile impact) and 80 °C (tensile). Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: for unlubricated or once-only-lubricant sliding Parts. FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA)

Flammability @1.6mm nom. HB  
 thickn. -  
 Flammability at thickness h (3.18 HB mm) UL recognition (h)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	7.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1230	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.195	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2060	J/(kg K)	-
<sup>[C]</sup> Ejection temperature	140	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	3000	MPa	ISO 527
<sup>[C]</sup> Yield stress	60	MPa	ISO 527
<sup>[C]</sup> Yield strain	8	%	ISO 527
<sup>[C]</sup> Nominal strain at break	22	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	100	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	100	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	5	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
<sup>[C]</sup> Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	-
Yellow Card available	yes	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	4.2	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	4.2	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	25	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	60	E-4	IEC 62631-2-1

**HOSTAFORM® C 9021 K**

POM

Celanese

[C] Volume resistivity	<b>1E12</b>	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	<b>1E14</b>	Ohm	IEC 62631-3-2
[C] Electric strength	<b>35</b>	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	<b>0.65</b>	%	Sim. to ISO 62
[C] Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
[C] Density	<b>1440</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 6</b>	h	-
Processing humidity	<b>≤0.2</b>	%	-
Melt temperature	<b>190 - 210</b>	°C	-
Mold temperature	<b>80 - 120</b>	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets, Natural Color

**Additives**

Release agent

**Special Characteristics**

Platable

**Features**

Thermal Stability, Copolymer

**Chemical Resistance**

Alkali Resistance, Solvent Resistance, Hydrolytically Stable, Oxidation Resistance

**Certifications**

Drinking water contact

**Applications**

Automotive

**Regional Availability**

North America, Europe, Near East/Africa

**Other text information****Injection molding**

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 %

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

Conditioning e.g. moisturizing is not necessary.