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**HOSTAFORM® C 9021 | POM | Unfilled**


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**Description**


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Chemical abbreviation according to ISO 1043-1: POM  
Molding compound ISO 9988- POM-K, M-GNR, 03-002

POM copolymer

Standard-Injection molding type with high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.

Monomers and additives are listed in EU-Regulation (EU) 10/2011  
FDA compliant according to 21 CFR 177.2470

UL-registration for all colours and a thickness more than 1.5 mm as  
UL 94 HB, temperature index UL 746 B electrical 110 °C, mechanical  
90 °C.

Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more  
than 1 mm.

Ranges of applications: automotive engineering, precision  
engineering, electric and electronical industry, domestic  
appliances.

FDA = Food and Drug Administration (USA)  
FMVSS = Federal Motor Vehicle Safety Standard (USA)  
UL = Underwriters Laboratories (USA)

<b>Physical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1410</b>	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	<b>8</b>	cm <sup>3</sup> /10min	ISO 1133
MVR test temperature	<b>190</b>	°C	ISO 1133
MVR test load	<b>2.16</b>	kg	ISO 1133
Mold shrinkage - parallel	<b>2</b>	%	ISO 294-4
Mold shrinkage - normal	<b>1.8</b>	%	ISO 294-4
Water absorption (23°C-sat)	<b>0.65</b>	%	ISO 62

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile modulus (1mm/min)	<b>2850</b>	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	<b>64</b>	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	<b>9</b>	%	ISO 527-2/1A
Nominal strain at break (50mm/min)	<b>30</b>	%	ISO 527-2/1A
Tensile creep modulus (1h)	<b>2500</b>	MPa	ISO 899-1
Tensile creep modulus (1000h)	<b>1300</b>	MPa	ISO 899-1
Flexural modulus (23°C)	<b>2700</b>	MPa	ISO 178
Charpy impact strength @ 23°C	<b>180P</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength @ -30°C	<b>160</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength @ 23°C	<b>6.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength @ -30°C	<b>6</b>	kJ/m <sup>2</sup>	ISO 179/1eA

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<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Melting temperature (10°C/min)	<b>166</b>	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	<b>104</b>	°C	ISO 75-1/-2
DTUL @ 0.45 MPa	<b>160</b>	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	<b>1.1</b>	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	<b>1.1</b>	E-4/°C	ISO 11359-2
Flammability @1.6mm nom. thickn.	<b>HB</b>	class	UL94
thickness tested (1.6)	<b>1.5</b>	mm	UL94
UL recognition (1.6)	<b>UL</b>	-	UL94
Flammability at thickness h	<b>HB</b>	class	UL94
thickness tested (h)	<b>3</b>	mm	UL94
UL recognition (h)	<b>UL</b>	-	UL94

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Relative permittivity - 100 Hz	<b>4</b>	-	IEC 60250
Relative permittivity - 1 MHz	<b>4</b>	-	IEC 60250
Dissipation factor - 100 Hz	<b>20</b>	E-4	IEC 60250
Dissipation factor - 1 MHz	<b>50</b>	E-4	IEC 60250
Volume resistivity	<b>1E12</b>	Ohm*m	IEC 60093
Surface resistivity	<b>1E14</b>	Ohm	IEC 60093
Electric strength	<b>35</b>	kV/mm	IEC 60243-1
Comparative tracking index CTI	<b>600</b>	-	IEC 60112

<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Processing conditions acc. ISO	<b>9988</b>	-	Internal

<b>Rheological Calculation properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density of melt	<b>1200</b>	kg/m <sup>3</sup>	Internal
Thermal conductivity of melt	<b>0.155</b>	W/(m K)	Internal
Specific heat capacity of melt	<b>2210</b>	J/(kg K)	Internal
Eff. thermal diffusivity	<b>4.85E-8</b>	m <sup>2</sup> /s	Internal
Ejection temperature	<b>140</b>	°C	Internal