

Hostaform® C 9021 GV3/10

Acetal (POM) Copolymer

Celanese Corporation

Message:

Chemical abbreviation according to ISO 1043-1: POM

Molding compound ISO 9988- POM-K, M-GNR, 03-002, GB10

POM copolymer

Injection molding type, reinforced with ca. 10 % glass spheres; high resistance to thermal and oxidative degradation.

UL-registration in natural and a thickness more than 0.81 mm, in black and a thickness more than 1.5 mm, as UL94 HB, temperature index UL 746 B for a thickness of 2 mm, electrical 105°C, mechanical 95°C (tensile impact) and 100°C (tensile).

Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm.

Ranges of applications: for low-warpage molded parts with higher rigidity and hardness.

FMVSS = Federal Motor Vehicle Safety Standard (USA)

UL = Underwriters Laboratories (USA)

General Information			
UL YellowCard	E42337-234616		
Filler / Reinforcement	Glass beads, 10% filler by weight		
Features	Low warpage		
	Rigidity, high		
	High hardness		
RoHS Compliance	Contact manufacturer		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	9.00	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	52.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	7.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	17	%	ISO 527-2/1A/50
Tensile Creep Modulus			ISO 899-1
1 hr	2800	MPa	ISO 899-1

1000 hr	1500	MPa	ISO 899-1
Flexural Modulus (23°C)	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	108	°C	ISO 75-2/A
Melting Temperature ¹	166	°C	ISO 11357-3
CLTE - Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.30		IEC 60250
1 MHz	4.10		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	0.015		IEC 60250
1 MHz	6.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.810 mm	HB		UL 94
1.50 mm	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Density of Melt	1.250	g/cm ³	Internal method
Ejection Temperature	165	°C	Internal method
Specific Heat Capacity of Melt	1870	J/kg/°C	Internal method
Thermal Conductivity of Melt	0.20	W/m/K	Internal method
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Hopper Temperature	20.0 - 30.0	°C	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	190 - 200	°C	

Nozzle Temperature	190 - 210	°C
Processing (Melt) Temp	190 - 210	°C
Mold Temperature	80.0 - 120	°C
Injection Pressure	60.0 - 120	MPa
Injection Rate	Slow	
Holding Pressure	60.0 - 120	MPa
Back Pressure	0.00 - 2.00	MPa

Injection instructions

Manifold Temperature: 190 to 210°C Zone 4 Temperature: 190 to 210°C Feed Temperature: 60 to 80°C

NOTE

1. 10°C/min

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