

# Hostaform® C 9021 GV1/20 XGM

### Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

#### **General Information**

#### **Product Description**

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 9988- POM-K, M-GS2, 02-003, GF20 POM copolymer Injection molding type, reinforced with ca 20 % glass fibers; includes PTFE for improved wear performance; high resistance to thermal and oxidative degradation; reduced thermal expansion and shrinkage. Ranges of applications: For molded parts requiring improved low wear performance while exhibiting very high strength and rigidity as well as higher hardness. FMVSS = Federal Motor Vehicle Safety Standard (USA)

General				
Material Status	Commercial: Active			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America	
Filler / Reinforcement	Glass Fiber, 20% Filler by Weight			
Additive	PTFE Lubricant			
Features	<ul><li>High Hardness</li><li>High Stiffness</li><li>High Strength</li></ul>	<ul><li>Low CLTE</li><li>Low Shrinkage</li><li>Lubricated</li></ul>	Wear Resistant	
RoHS Compliance	<ul> <li>Contact Manufacturer</li> </ul>			
Processing Method	<ul> <li>Injection Molding</li> </ul>			
Resin ID (ISO 1043)	• POM			

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.57	g/cm³	ISO 1183		
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00	cm <sup>3</sup> /10min	ISO 1133		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	1.12E+6	psi	ISO 527-2/1A		
Tensile Stress (Break)	14500	psi	ISO 527-2/1A/5		
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5		
Flexural Modulus (73°F)	1.07E+6	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength			ISO 179/1eA		
-22°F	2.6	ft·lb/in²			
73°F	2.6	ft·lb/in²			
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (M-Scale)	86		ISO 2039-2		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Unannealed)	316	°F	ISO 75-2/A		
Melting Temperature <sup>2</sup>	331	°F	ISO 11357-3		
CLTE - Flow	1.7E-5	in/in/°F	ISO 11359-2		
CLTE - Transverse	5.0E-5	in/in/°F	ISO 11359-2		

Processing Information			
Injection	Nominal Value Unit		
Drying Temperature	212 to 248 °F		
Drying Time	3.0 to 4.0 hr		
Suggested Max Moisture	0.15 %		



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Nominal Value Unit	
68 to 86 °F	
338 to 356 °F	
356 to 374 °F	
374 to 392 °F	
374 to 410 °F	
374 to 410 °F	
176 to 248 °F	
Slow	
< 290 psi	
	68 to 86 °F  338 to 356 °F  356 to 374 °F  374 to 392 °F  374 to 410 °F  374 to 410 °F  176 to 248 °F  Slow

Feeding zone temperature: 60 to 80°C Zone4 temperature: 190 to 210°C Hot runner temperature: 190 to 210°C

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> 10°C/min