

# Hostaform® C 9021 TF

# 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-GNS, 02-002 POM copolymer Injection molding type, modified with PTFE; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; for sliding combinations with very low coefficient of friction. 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 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 sliding combinations with very low coefficient of friction. FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (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
Additive	<ul> <li>PTFE Lubricant</li> </ul>		
Features	<ul><li> Alkali Resistant</li><li> Chemical Resistant</li><li> Fuel Resistant</li></ul>	<ul><li>Hydrolysis Resistant</li><li>Low Friction</li><li>Lubricated</li></ul>	Solvent 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 <sup>1</sup>				
Physical	Nominal Value	Unit	Test Method	
Density	1.51	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00	cm³/10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.7	%		
Flow	2.0	%		
Water Absorption (Saturation, 73°F)	0.65	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	363000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	6960	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	7.0	%	ISO 527-2/1A/50	
Nominal Tensile Strain at Break	16	%	ISO 527-2/1A/50	
Tensile Creep Modulus (1 hr)	305000	psi	ISO 899-1	
Tensile Creep Modulus (1000 hr)	174000	psi	ISO 899-1	
Flexural Modulus (73°F)	348000	psi	ISO 178	
mpact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	1.9	ft·lb/in²		
73°F	1.9	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	29	ft·lb/in²		
73°F	29	ft·lb/in²		



### Hostaform® C 9021 TF

## Celanese Corporation - Acetal (POM) Copolymer

Nominal Value	Unit	Test Method
17400	psi	ISO 2039-1
Nominal Value	Unit	Test Method
208	°F	ISO 75-2/A
293	°F	ISO 306/B50
331	°F	ISO 11357-3
6.1E-5	in/in/°F	ISO 11359-2
Nominal Value	Unit	Test Method
1.0E+14	ohms	IEC 60093
1.0E+14	ohms·cm	IEC 60093
840	V/mil	IEC 60243-1
		IEC 60250
3.70		
3.70		
		IEC 60250
2.0E-3		
8.0E-3		
600	V	IEC 60112
Nominal Value	Unit	Test Method
		UL 94
HB		
НВ		
	17400 Nominal Value 208 293 331 6.1E-5 Nominal Value 1.0E+14 1.0E+14 840 3.70 3.70 2.0E-3 8.0E-3 600 Nominal Value	2.0E-3 8.0E-3 600 V Nominal Value Unit

njection	Nominal Value Unit	it
Drying Temperature	212 to 248 °F	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	
Hopper Temperature	68 to 86 °F	
Rear Temperature	338 to 356 °F	
Middle Temperature	356 to 374 °F	
Front Temperature	374 to 392 °F	
Nozzle Temperature	374 to 410 °F	
Processing (Melt) Temp	374 to 410 °F	
Mold Temperature	176 to 248 °F	
Injection Rate	Slow	
Back Pressure	< 290 psi	

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>2</sup> 30s

3 10°C/min

