

Hostaform® C 9021 AW

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, 03-002 POM copolymer Injection molding type like C 9021, with special additive modified; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; good wear properties and low coefficient of friction. UL-registration in natural and black and a thickness more than 1.5 mm as UL 94 HB. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: sliding parts for window lifter. UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

General			
Material Status	Commercial: Active		
Availability	Africa & Middle East Asia Pacific	Europe Latin America	North America
Features	Alkali Resistant Chemical Resistant	Hydrolysis Resistant Low Friction	Wear Resistant
	Fuel Resistant	Solvent Resistant	
RoHS Compliance	Contact Manufacturer		
Processing Method	 Injection Molding 		
Resin ID (ISO 1043)	• POM		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.38	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.9	%		
Flow	2.1	%		
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	377000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	8410	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50	
Nominal Tensile Strain at Break	20	%	ISO 527-2/1A/50	
Tensile Creep Modulus (1 hr)	334000	psi	ISO 899-1	
Tensile Creep Modulus (1000 hr)	174000	psi	ISO 899-1	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	2.4	ft·lb/in²		
73°F	2.9	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	62	ft·lb/in²		
73°F	71	ft·lb/in²		
Hardness	Nominal Value	Unit	Test Method	
Ball Indentation Hardness ²	20300	psi	ISO 2039-1	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	190	°F	ISO 75-2/A	

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	293	°F	ISO 306/B50
Melting Temperature ³	331	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	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
Electric Strength	890	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	5.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	НВ		
0.12 in	НВ		

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

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

Notes

¹ Typical properties: these are not to be construed as specifications.

² 30s

³ 10°C/min

