

Hostaform® C 9021 AW XAP² ™ LS

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

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. Reduced emission grade. Emissions according to VDA 275 < 5 mg/kg 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. FMVSS = Federal Motor Vehicle Safety Standard (USA) Preliminary Data Sheet

General			
Material Status	Experimental: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Alkali ResistantChemical ResistantFuel Resistant	Hydrolysis ResistantLow EmissionsLow Friction	Solvent ResistantWear Resistant
RoHS Compliance	 Contact Manufacturer 		
Processing Method	 Injection Molding 		

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	cm³/10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.6	%		
Flow	1.8	%		
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	355000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	8270	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	
Flexural Modulus (73°F)	312000	psi	ISO 178	
Flexural Stress (73°F)	11300	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	2.4	ft·lb/in²		
73°F	2.6	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	52	ft·lb/in²		
73°F	62	ft·lb/in²		
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	190	°F	ISO 75-2/A	
Vicat Softening Temperature	293	°F	ISO 306/B50	
Melting Temperature ²	331	°F	ISO 11357-3	
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2	



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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

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 %			
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

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



² 10°C/min