



Hostaform® S 9243 XAP²™ LS

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

POM copolymer, modified Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type HOSTAFORM C 9021 Reduced emission grade, Emission according to VDA 275 < 5 mg/kg good weld strength. Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness) Preliminary Datasheet for natural and colored grades

General

Material Status	• Experimental: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance	• Low Emissions	
RoHS Compliance	• Contact Manufacturer		
Appearance	• Colors Available	• Natural Color	
Processing Method	• Injection Molding		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	1.9	%	
Water Absorption (Saturation, 73°F)	1.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	283000	psi	ISO 527-2/1A
Tensile Stress (Yield)	6380	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	40	%	ISO 527-2/1A/50
Tensile Creep Modulus (1 hr)	247000	psi	ISO 899-1
Tensile Creep Modulus (1000 hr)	138000	psi	ISO 899-1
Flexural Modulus (73°F)	268000	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	4.3	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F, Partial Break	95	ft·lb/in ²	
73°F	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	167	°F	ISO 75-2/A
Vicat Softening Temperature	266	°F	ISO 306/B50
Melting Temperature ²	331	°F	ISO 11357-3
CLTE - Flow	6.7E-5	in/in/°F	ISO 11359-2

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	6.0E-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 392	°F
Processing (Melt) Temp	374 to 392	°F
Mold Temperature	140 to 176	°F
Injection Rate	Slow-Moderate	
Back Pressure	< 290	psi

Injection Notes

Feeding zone temperature: 60 to 80°C
Zone4 temperature: 190 to 200°C
Hot runner temperature: 190 to 200°C

Notes

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

² 10°C/min