



Hostaform® EC141SXF 10/9022

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® acetal copolymer grade EC141SXF 10/9022 is a conductive grade modified to resist deterioration from aggressive fuel blends. Hostaform® EC141SXF 10/9022 has been developed to dissipate static electricity from fuel handling systems. Hostaform® EC141SXF 10/9022 has been specially formulated for laser welding applications. Please note Hostaform® EC141SXF 10/9022 has special processing considerations to ensure static dissipation properties. Use minimum back pressure and slowest screw speed possible in retracting screw during cooling portion of cycle. Large gate size (>2 mm) recommended. Pneumatic conveying of material long distances is not recommended.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
Features	• Asia Pacific	• Latin America	•
	• Electrically Conductive	• Fuel Resistant	
	• ESD Protection	• Laser Weldable	

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.50	g/cm ³	ISO 1183
Mechanical			
Tensile Modulus	464000	psi	ISO 527-2/1A
Tensile Stress (Yield)	8410	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	11	%	ISO 527-2/1A/50
Tensile Strain (Break)	17	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	435000	psi	ISO 178
Impact			
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.4	ft·lb/in ²	
73°F	1.9	ft·lb/in ²	
Thermal			
Heat Deflection Temperature (264 psi, Unannealed)	212	°F	ISO 75-2/A
Melting Temperature ²	338	°F	ISO 11357-3
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	6.1E-5	in/in/°F	ISO 11359-2
Electrical			
Volume Resistivity	3.0E+2	ohms·cm	IEC 60093

Processing Information

	Nominal Value	Unit	
Injection			
Drying Temperature	212 to 248	°F	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	338 to 356	°F	
Middle Temperature	347 to 365	°F	
Front Temperature	356 to 374	°F	
Nozzle Temperature	374 to 392	°F	
Processing (Melt) Temp	356 to 392	°F	
Mold Temperature	176 to 248	°F	

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Injection	Nominal Value	Unit
Injection Rate	Slow	
Back Pressure	< 290	psi

Injection Notes

Zone4 temperature: 185 to 195°C

Hot runner temperature: 190 to 200°C

Notes

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

² 10°C/min