

# Celcon® CF802 10/9022

# Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

### **General Information**

#### **Product Description**

Celcon® acetal copolymer grade CF802 10/9022 is a conductive, fuel compatible general purpose acetal copolymer. Celcon® CF802 10/9022 has been developed to dissipate static electricity from fuel handling systems. Celcon® CF802 10/9022 has been specially formulated for laser welding applications. Please note Celcon® CF802 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. Celcon® CF802 10/9022 was formerly provided under the Hostaform® tradename.

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
Features	<ul><li> Electrically Conductive</li><li> ESD Protection</li></ul>	<ul><li>Fuel Resistant</li><li>General Purpose</li></ul>	Laser Weldable
Uses	General Purpose		
RoHS Compliance	Contact Manufacturer		

ASTM & ISO Properties <sup>1</sup>					
Physical	Nominal Value	Unit	Test Method		
Density	1.47	g/cm³	ISO 1183		
Molding Shrinkage			ISO 294-4		
Across Flow	1.6	%			
Flow	1.7	%			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	435000	psi	ISO 527-2/1A		
Tensile Stress (Yield)	8990	psi	ISO 527-2/1A/50		
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50		
Tensile Creep Modulus (1 hr)	309000	psi	ISO 899-1		
Tensile Creep Modulus (1000 hr)	152000	psi	ISO 899-1		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	1.9	ft·lb/in²	ISO 179/1eA		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Unannealed)	212	°F	ISO 75-2/A		
Melting Temperature <sup>2</sup>	333	°F	ISO 11357-3		
Melting Temperature	329	°F			
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2		
CLTE - Transverse	6.7E-5	in/in/°F	ISO 11359-2		
Electrical	Nominal Value	Unit	Test Method		
Surface Resistivity	2.0E+3	ohms	IEC 60093		

Processing Information			
Injection	Nominal Value Unit		
Drying Temperature	212 to 248 °F		
Drying Time	3.0 to 4.0 hr		



Volume Resistivity

Static Decay - 15% RH, +5kV

3.0E+2 ohms·cm

10 msec

IEC 60093

Internal Method

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338 to 356 347 to 365 356 to 374 374 to 392	°F
356 to 374	°F
374 to 392	°F
356 to 392	°F
176 to 248	°F
Slow	
< 290	psi
	176 to 248 Slow

Zone4 temperature: 185 to 195°C Hot runner temperature: 190 to 200°C

### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

