Hostaform® EC140XF

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® EC140XF is a conductive ESD grade of acetal copolymer for applications requiring dissipation of static build-up. EC140XF has an improved resistance to aggressive fuel blends.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Electrically Conductive	• ESD Protection	• Fuel Resistant
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.9	%	
Flow	2.1	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	392000	psi	ISO 527-2/1A
Tensile Stress (Yield)	7690	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.7	%	ISO 527-2/1A/50
Tensile Strain (Break)	12	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	384000	psi	ISO 178
Flexural Stress (3.5% Strain)	10200	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.9	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	33	ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	2.1	ft·lb/in²	ISO 180/1A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	306	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	196	°F	ISO 75-2/A
Vicat Softening Temperature	298	°F	ISO 306/B50
Melting Temperature [2]	331	°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	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3	ohms	IEC 60093
Volume Resistivity	5.0E+2	ohms·cm	IEC 60093

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Processing Information		
Injection	**Nominal Value**	**Unit**
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
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
Back Pressure	< 290	psi

Injection Notes

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