

# Conductive Plastics

## *Hostaform® acetal copolymer grades*

### Static Dissipative

**C27021 AST** Enhanced anti-static dissipative properties

### Electrically Conductive

**C 9021 ELS** Electrically conductive carbon black and elastomer

## *Celcon® acetal copolymer grades*

### Static Dissipative

**AS270** M270 based product with enhanced anti-static dissipative properties

**AS450** M450 based product with enhanced anti-static dissipative properties

**LW270AS** M270 based product with enhanced low wear and anti-static dissipative properties

### Electrically Conductive

**CH-15** Carbon fiber filled grade with electrical conductivity and electrostatic dissipative properties and higher strength and stiffness than EF-10.

**EC90PLUS** Semi-conductive grade with electrostatic dissipative properties

**EF10** 10% carbon fiber reinforced, electrically conductive

### Hostaform® acetal copolymer

Property	Test Method	Units	Static Dissipative C27021AST	Electrically Conductive C9021ELS
<i>Physical</i>				
Density	ISO 1183	g/cm <sup>3</sup>	1.41	1.37
Melt mass-flow rate MFR 190/2.16	ISO 1133	g/10 min	—	—
Volume flow rate MVR 190/2.16	ISO 1133	ml/10 min	24.5	3
Water Absorption 23°C and Saturation 23°C and 50% Relative Humidity	ISO 62	%	0.7 0.2	2.8 0.25
<i>Mechanical</i>				
Yield Stress	ISO 527	MPa	63	35
Tensile Modulus	ISO 899	MPa	2,800	1,900
Tensile Creep Modulus at 1 hour at 1,000 hours	ISO 899	MPa	2,400 1,300	1,400 1,000
Flexural Strength	ISO 178	MPa	—	—
Flexural Modulus	ISO 178	MPa	—	—
Charpy Impact Strength at 23°C	ISO 179/1eU	kJ/m <sup>2</sup>	16	5
Izod Impact Strength - Notched at 23°C at -30°C	ISO 180/A	kJ/m <sup>2</sup>	—	—
Izod Impact Strength - Unnotched at 23°C at -30°C	ISO 180/A	kJ/m <sup>2</sup>	—	—
<i>Thermal</i>				
Heat Deflection Temperature HDT/A	ISO 75	°C	100	89
Melting Point DSC, 10°C/min	ISO 11357-3	°C	166	166
<i>Electrical</i>				
Volume Resistivity	ohm-cm		10 <sup>14</sup>	1.5
Surface Resistivity	ohms		10 <sup>13</sup>	8,000



## World-Class Engineering Polymers

- Celanex® thermoplastic polyester (PBT)
- **Celcon® and Hostaform® acetal copolymer (POM)**
- Celstran® and Compel® long fiber reinforced thermoplastics (LFRT)
- Fortron® polyphenylene sulfide (PPS)
- GUR® ultra-high molecular weight polyethylene (UHMW-PE)
- Impet® thermoplastic polyester (PET)
- Riteflex® thermoplastic polyester elastomer (TPC-ET)
- Vandar® thermoplastic polyester alloy (PBT)
- Vectra® liquid crystal polymer (LCP)

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