

# DURACON® EB-10

## Polyplastics - Acetal (POM) Copolymer

### General Information

#### Product Description

Electric Conductive

Anti-static

#### General

Filler / Reinforcement	• Carbon Powder, 10% Filler by Weight
Additive	• Antistatic
Features	• Antistatic • Copolymer • Electrically Conductive
UL File Number	• E45034
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >POM-CD10<

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.2	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.9	%	
Flow : 0.0787 in	2.3	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	479000	psi	ISO 527-1
Tensile Stress	7980	psi	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	435000	psi	ISO 178
Flexural Stress	13800	psi	ISO 178
Coefficient of Friction <sup>3</sup> (vs. Steel - Dynamic)	0.57		JIS K7218
Wear Factor			JIS K7218
71 psi, 59 ft/min <sup>4</sup>	< 0.50	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
71 psi, 59 ft/min <sup>5</sup>	99	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	0.86	ft·lb/in <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	203	°F	
CLTE - Flow (73 to 131°F)	6.1E-5	in/in/°F	Internal Method

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Thermal	Nominal Value	Unit	Test Method
CLTE - Transverse (73 to 131°F)	6.1E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+2	ohms	Internal Method
Volume Resistivity	50	ohms·cm	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	CD3502		

#### Notes

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

<sup>2</sup> 60x60x2mmt, Cavity Pressure 60 MPa

<sup>3</sup> vs C-Steel, pressure 0.49MPa, 30cm/s

<sup>4</sup> vs C-Steel, Steel Side

<sup>5</sup> vs C-Steel, Material Side