

BPCOAT CC

Conductive Powder Coating



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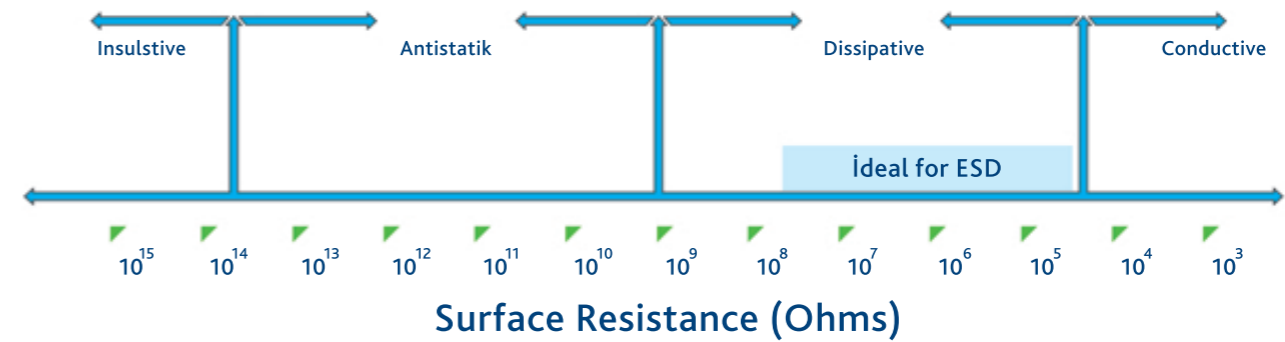


BPCOAT-CC Series are thermoset powder coatings that can be used where sensitive electronic equipment must be protected from electrostatic discharge. The conductive coating will dissipate static charge occurring onto the surface. This will protect electronic components much more safe during usage.

Features;

- Electrostatic dissipative range (10^5 to 10^9 Ω -ohms)
- Can be applied with electrostatic powder spray gun
- Limited range of colors. Black to dark-grey color are available
- Curing temperatures options as low as 130°C - 160°C - 200°C

Technical Properties		
Tests Done	Units(Methods)	Value
Surface Appearance	-----	Smooth-Texture
Color	-----	Black and dark-grey
Specific Gravity	(EN ISO 8130-3)	1,5-1,6 (Based on Color/Gloss)
Gloss	(EN ISO 2813 60 °)	5-95
Surface Resistivity (dissipative)	Ω -ohms at 100 V	10^5 to 10^9
Theoretical Coverage (50 microns)	m ² /kg	12-13
Recommended Film Thickness	microns	40-60



According to the Standard IEC 61340-5-1, the surface resistance for ESD-Workstations should be max. 10^9 Ohms for protection of electronic devices from electrostatic events.

What is ESD and Which materials are suitable for dissipating static electricity?

Electrostatic discharge (ESD) is the transfer of an electrostatic charge between two objects with different numbers of electrons. This exchange of electrons creates a large electromagnetic field buildup. It can be very damaging to electronic devices which are sensitive to electrostatic discharge (ESD).

Grounding is essential for blocking ESD. Everything in a work area should be connected to a grounding system.

Materials which are conductive like steel surfaces can not be used as a static-safe surface. Because a sudden and rapid discharge is much more damaging to the electronic devices. Static dissipative materials are used for discharging static charge to ground slowly.

Recommended surface resistivity between 10^5 to 10^9 ohms/sq.



Application Area;

- Electronic enclosures and cabinets.
- Computer workstations.
- Work benches and shelving.