FOOD Forum

PORT PLASTICS

# THE SHOCKING TRUTH ABOUT CONVEYORS

## STATIC CHARGES CAN POTENTIALLY HARM EMPLOYEES, DAMAGE SENSITIVE PRODUCTS, CAUSE FIRES, AND EVEN LEAD TO EXPLOSION.

Electrostatic dissipative (ESd) plastics are becoming increasingly utilized in conveyor systems because of their anti-static properties. Conveyors are integral to many manufacturing and production processes, and the use of ESd plastics can help minimize the risk of static discharge.

During the manufacturing process, electrostatic discharge can be generated from the interaction of materials moving through a conveyor system. The presence of these charges is problematic because they can cause harmful effects to the products, components being conveyed, employees, and sensitive electronic controls.

Different ESd plastics can be used to meet specific production and product requirements. For example, some ESd plastics have different levels of conductivity that can be adjusted to meet the specific production requirements for a given product. Other ESd plastics are designed to be particularly resistant to chemical or environmental factors that are common in specific manufacturing environments.

| Ω/sq | | |
|---|---|---|
| $10^{12}$ | Insulative | • These materials resist the flow of electrical current<br>• Used to separate conductive materials without passing current though themselves |
| $10^{10}$ | High Resistivity | • Known as Anti-Static – these materials have minimum capacity of absorption of current but generally resist static build<br>• Devise may maintain hi level of charge due to inability to fully dissipate |
| $10^{6}$ | Dissipative | • These materials are designed to slowly bleed or absorb current from a highly charged devise |
| $10^{2}$ | Conductive Range | • These materials provides high level of absorption of current flow and are generally used for EMI shielding applications |

CHART BY SHW

*Proper testing and installation should be conducted to ensure optimal performance and durability.*

CONTACT PORT PLASTICS WHEN SELECTING THE APPROPRIATE ESD PLASTICS FOR YOUR CONVEYOR SYSTEM. WE HAVE A DEEP UNDERSTANDING OF THE VARIOUS TYPES OF ESD PLASTICS AND HOW THEY CAN BEST BE UTILIZED. www.PortPlastics.com