

- ▶ Consistent surface resistivity of 10^8 to 10^{11} ohms/sq.
- ▶ Non-sloughing, anti-static properties inherent throughout sheet; no coating necessary
- ▶ Fully colorable
- ▶ Not impacted by humidity

KEY BENEFITS

- Anti-static properties are inherent throughout each sheet, making costly coating steps obsolete
- Conductivity effectiveness is not impacted by humidity, environmental factors, wear and tear, machining, or forming
- Ideal for ESD protection and dust control
- Sheets are fully colorable and available in a range of polymers (PP, PC, Acrylic, PETG, ABS, and others), with additive options
- Standard widths 8" to 56" and standard gauges 0.020" to 0.250" are readily available; custom sizes produced to specifications

Engineered Sheet Products (ESP), a division of RTP Company, offers exclusive thermoplastic sheets that permanently protect sensitive electronics from the damaging effects of static electricity. The sheets are made from compounds that comply with MIL-PRF-81705D static decay specifications. They are free of carbon black powder, and thus, the sheets do not crayon or "slough."

PermaStat™ sheets are available in a wide range of resin systems, including polypropylene, polyethylene, polycarbonate, acrylonitrile butadiene styrene, and acrylic. Featuring a consistent surface resistivity of 10^{10} to 10^{11} ohms/square, these sheets provide important anti-static performance for applications requiring dust-free and static-free environments. When higher conductivity and lower surface resistance (10^8 to 10^9 ohms/square) are required, ESP also offers PermaStat Plus™ sheet.

Because PermaStat™ sheets are anti-static and non-sloughing, they do not release any conductive contaminants into sensitive environments, such as clean-rooms used during the manufacturing of medical products or electronic devices. Without carbon-based additives, PermaStat™ sheets more readily meet particulation requirements in environments that must remain dust-free. PermaStat™ sheets contain no corrosive agents to out-gas and collect on metal components, eliminating costly pre-cleaning steps in electronic assembly.

PermaStat™ sheets offer significant benefits over fragile, surfactant-based anti-static coated sheets and plastics that are applied after part manufacturing. Through RTP Company's compounding process, the anti-static performance for PermaStat™ sheets becomes inherent in the sheet material, thus eliminating costly, time-consuming secondary operations required for coatings.

In contrast to sheets containing migratory hygroscopic surfactant anti-statics, PermaStat™ sheets function in low humidity environments. They solve problems in applications where other migratory anti-static agents are removed by material movement, cleaning agents, or evaporation.

PermaStat™ sheets can be customized with structural reinforcements, flame-retardant, wear additives, and colorants. PermaStat™ sheets are made from compounds that comply with UL 94 V-0 flame ratings are also available.

For more information or to order PermaStat™ or PermaStat Plus™ sheets, contact your ESP representative at 800-432-2386 or via email at info@espddiv.com. For more information, visit www.engineeredsheetproducts.com.

**PermaStat™ and PermaStat Plus™ are trademarks of RTP Company.*



Available PermaStat™ Resin Systems*

| ESP SERIES | BASE POLYMER | ABBREVIATION |
|--------------|---------------------------------|--------------|
| 100 | Polypropylene | PP |
| 300 | Polycarbonate | PC |
| 400 | Polystyrene | PS |
| 600 | Acrylonitrile Butadiene Styrene | ABS |
| 700 | High Density Polyethylene | HDPE |
| 800 | Acetal | POM |
| 1800 | Acrylic | PMMA |
| 1800A | PC/Acrylic Alloy | PC/PMMA |
| 2500 | Polycarbonate/ABS Alloy | PC/ABS |

*Additional resin systems are available upon request.

Typical PermaStat™ Sheet Applications

- Clean rooms
- Communications components
- Computers and business machines
- Electronic shipping trays
- Fan blades
- Film processing equipment
- Food and beverage equipment
- Household appliances
- Material handling equipment
- Medical equipment
- Point of sale terminals
- Vacuum filter cartridge housing



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