

- ▶ 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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