

PERMASTAT® COMPOUNDS

Permanent ESD Protection from RTP Company

Quick Information

- ▶ Consistent surface resistivity of 10^{10} to 10^{11} ohms/sq.
- ▶ Fully colorable
- ▶ Non-sloughing

Imagine a thermoplastic compound that permanently protects sensitive electronics from damaging effects of static electricity. A compound that is free of carbon black, so it does not crayon or "slough." At RTP Company, we not only imagined it, we've made it a reality.

PermaStat® Compounds are available in a wide range of resin systems, including polypropylene, polyethylene, nylon, polycarbonate, ABS, acrylic, and elastomers. Featuring a consistent surface resistivity of 10^{10} to 10^{11} ohms/square, these compounds provide important anti-static performance for applications requiring dust-free and static-free environments. Each PermaStat® Compound meets MIL-PRF-81705D static decay specifications.

Because PermaStat® Compounds are anti-static and non-sloughing, they release no conductive contaminants in sensitive environments such as cleanrooms for manufacture of medical products or electronic devices. And, without carbon additives, PermaStat® Compounds more readily meet particulation requirements in environments that must remain dust-free. PermaStat® Compounds contain no

corrosive agents to out-gas and collect on metal components, eliminating costly pre-cleaning steps in electronic assembly.

PermaStat® Compounds offer significant benefits over fragile, post-applied surfactant coatings. Through the compounding process, the anti-static performance becomes inherent in the molded material, thus eliminating costly, time-consuming secondary operations required for coatings. And, in contrast to hygroscopic surfactant coatings, PermaStat® Compounds function in low relative humidity levels. They solve problems in applications where other anti-static agents can be removed by material movement, cleaning agents, or evaporation.

PermaStat® Compounds can be customized with structural reinforcements, flame-retardant and wear additives, and colorants. Many PermaStat® Compounds have UL 94 V-0 flammability recognition.

PermaStat® Compounds....another innovation from the leader in specialty compounding.

PermaStat® is a registered trademark of RTP Company.

PermaStat®

World Headquarters:

RTP Company
580 East Front Street
Winona, MN 55987
phone: 507-454-6900
800-433-4787
fax: 507-454-4629
web site: www.rtpcompany.com
email: rtp@rtpcompany.com



The Leader in Specialty Compounding

Manufacturing Facilities:



Winona, MN
South Boston, VA
Dayton, NV
Beaune, France

Fort Worth, TX
Indianapolis, IN

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Typical PermaStat® Compound Applications

Calculators
Chip carriers/matrix trays
Computers and business machines
Fan blades
Film processing equipment
Food and beverage equipment
Gears, rollers, and bushings
Household appliances
Material handling equipment
Point of sale terminals
Printers/paper tractors
Medical equipment
Communications components
Vacuum filter cartridge housing
Videotape cases

Available PermaStat® Resin Systems

100	Polypropylene (PP)
200	Nylon 6/6 (PA)
200 A	Nylon 6 (PA)
200 F	Nylon 12 (PA)
200 H	Nylon 6/6, Impact Modified (PA)
300	Polycarbonate (PC)
400	Polystyrene (PS)
500	Styrene Acrylonitrile (SAN)
600	Acrylonitrile Butadiene Styrene (ABS)
700	High Density Polyethylene (HDPE)
800	Acetal (POM)
1000	Polybutylene Terephthalate (PBT)
1200	Polyurethane Thermoplastic Elastomer (TPU)
1500	Polyester Thermoplastic Elastomer (TPE)
1800	Acrylic (PMMA)
1800 A	PC/Acrylic Alloy (PC/PMMA)
2500	Polycarbonate/ABS Alloy (PC/ABS)
2700	Styrenic Thermoplastic Elastomer (TES)
2800	Olefinic Thermoplastic Elastomer (TEO)
3300	Polyvinylidene Fluoride (PVDF)



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Product Development Contact:

Visit RTP Company's website for specific data sheet information or contact:

Wayne Kronebusch
 Product Development Engineer
wkronebusch@rtpcompany.com

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RTP Company
 580 East Front Street
 Winona, MN 55987
 phone: 507-454-6900
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