

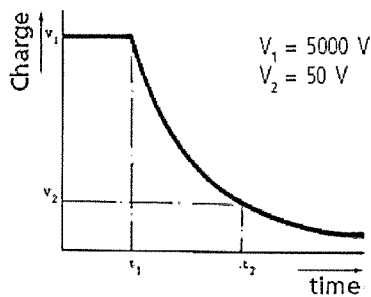
63. RECSTAT®

General description

RECSTAT® is a polyurethane foam which assures adequate Electrostatic discharge (ESD) protection. It is a soft anti-static polyether foam which offers maximum protection against shocks and vibrations.

ESD-protection

The classification of RECSTAT® within the ESD-protective materials is based on the specification IS-5-A from the Electronic Industries Association. This classification is based on two main characteristics; the surface resistivity and the volume resistivity. The surface resistivity relates to the electrical resistivity of a material along its surface. The volume resistivity relates to the electrical resistivity throughout the core. RECSTAT® is classified within the electrostatic dissipative materials. Thanks to its reduced electrical resistivity, the foam doesn't accumulate electrical charges to a high electrical potential, but allows dissipation of generated charges. The static decay time (SDT), the time required by a potential of 5000 Volts to decline through the material to a level of 50 Volts, is less than 2 seconds. This test method is illustrated in the figure below.



Produkt	Résistivité ($\Omega \text{ cm}$)
Firend T	10^8
Recstat®	$< 5 \cdot 10^{11}$
Traditional polyurethane foam	10^{13}

Applications

RECSTAT® is used for the transport of light items such as printed circuits boards, semi-conductors,...

When diecut, RECSTAT® 's surface fits perfectly around the item and thus offers a better protection.

General characteristics and possibilities of use

RECSTAT® is a low corrosive material and satisfies the requirements according to the Technical Specification 10218 A from the US MOD.

RECSTAT® can be cut, diecut, deformation cut, glued,...