



OVERVIEW

Lubrizon, the pioneers of static control technology, offers a wide variety of permanent static-control polymers and highly flexible, durable engineered polymer solutions for electronic applications. Whether the process involves thermoforming, injection molding or extruding, or the applications range from disk drives to semiconductor manufacturing, packaging to clean rooms, Lubrizon offers unique, customized product formulations for a wide range of applications.

Soft Wall Cleanroom Curtains

Soft wall cleanroom curtains made from Lubrizon Engineered Polymers provide permanent, humidity-independent ESD protection from sensitive manufacturing conditions. Additionally, they contain no plasticizers, making them virtually non-outgassing.

Data Center Enclosures

Data center enclosures made from Lubrizon Engineered Polymers provide permanent ESD and contamination protection for control barriers that provide separation of hot and cold aisles inside, and sometimes outside, the enclosure walls. Electrostatic discharge should be of concern to any data center operator due to the risk of damage to equipment.

BENEFITS

- Permanent IDP, ESD and contamination protection (withstands washing)
- Low outgassing
- Improved air pressure retention
- No carbon particulates
- Non-corroding (low ionics)
- Lot-to-lot consistency (no "hot spots")
- Flexible (wide range of carbon fillers and base polymers for customized mechanical, thermal and electrical performance requirements; mono- and tri-layer sheets at various thicknesses)
- Colorable and UV-resistant
- Flame-retardant (US - NFPA 701, California Fire Marshal test)
- High resistance to puncturing/tearing

AVAILABLE PRODUCTS:

Stat-Rite®

Stat-Rite inherently dissipative polymer (IDP) alloys set the new standard for test and design engineers requiring permanent static dissipation without compromising cleanliness. Unlike conventional technologies, such as conductive fillers and chemical anti-stats, Stat-Rite IDP alloys blend a proprietary, inherently dissipative polymer with a variety of base polymers. This produces polymer alloys with an inherent static dissipative polymer inter-penetrating network that remains intact through thermoforming, injection molding or extruding while maintaining the physical properties of the base polymer.

Carbo-Rite™

Carbo-Rite™ conductive compounds and sheet products provide permanent ESD (electrostatic dissipative) solutions to our customers. Lubrizol uses a clean manufacturing environment with state-of-the-art compounding equipment to produce cost-effective ESD protective compounds with a high level of consistency from lot to lot.

Products	Stat-Rite® S-1100	Stat-Rite® E-1140
Surface Resistivity Ohms/sq	5 x 10 ⁹	1 x 10 ¹⁰
Volume Resistivity Ohm – cm	5 x 10 ⁹	2 x 10 ¹⁰
Static Decay Rate 5000 – 50 V (sec.)	0.01	0.9
ESD permanence	Yes	Yes
Clarity / Color	Clear – light blue	Clear – yellow tint
Clarity	Clear	Clear
Elongation		
Misc.	Shore 91A NFPA 701 Class A	NFPA 701 Class A

LUBRIZOL
ENGINEERED
POLYMERS

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

