

Stat-Rite® S-1110

Polyethylene

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-1110 Polymers is an Inherently Dissipative Polymer (IDP) specially developed using Lubrizol's patented Stat-Rite® IDP technology to impart permanent static dissipative property to polyethylene resins. Blends of Stat-Rite® S-1110 with polyethylene can be directly injection molded or extruded into the desired products. Typical loading of 10-25% shall impart surface resistivities of 10⁹ -10¹¹ ohm/square to the final products.

FEATURES

Permanently static dissipative

Humidity independent

APPLICATIONS

Cleanroom accessories

Electronic equipment parts and housing

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| Features | Antistatic | | |
| | Humidity Independent | | |
| | Rapid Static Decay | | |
| Uses | Electrical Housing | | |
| | Electrical Parts | | |
| | Electrical/Electronic Applications | | |
| | Housings | | |
| | Masterbatch | | |
| Appearance | Yellow | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.17 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 65 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 5.52 | MPa | ASTM D638 |
| Tensile Elongation (Break) | > 500 | % | ASTM D638 |
| Flexural Modulus | 138 | MPa | ASTM D790 |
| Electrical | Nominal Value | Unit | Test Method |
| Static Decay | | | CPM |
| 1000V to 100V, 50% R.H. | 0.1 | sec | |
| 1000V to 10V, 50% R.H. | 0.1 | sec | |
| Surface Resistance - 12% R.H. | 5.0E+6 | ohms | ESD S11.11 |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

