

## Lubrizol STAT-RITE® S-1107 Static Dissipative TPU

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

### Material Notes:

**Description:** Stat-Rite® S-1107 is a static dissipative TPU alloy. Stat-Rite S-1107 utilizes the patented Stat-Rite inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. Stat-Rite® IDP alloys provide consistent static dissipation even when extruded, injection molded or thermoformed into components.  
**Features:** Permanent static dissipativeHumidity insensitiveUltra-clean: low off-gassing, low ionic contaminationColorableDurable: Can be used for years and yearsApplications: ESD and Cleanroom TubingESD and Cleanroom HoseCleanroom CurtainsConveyor ESD Wear Strip, RollersESD and Cleanroom FilmAvailable in Americas, Europe, Middle East, Africa, India and AsiaInformation provided by Lubrizol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-STAT-RITE-S-1107-Static-Dissipative-TPU.php](http://www.lookpolymers.com/polymer_Lubrizol-STAT-RITE-S-1107-Static-Dissipative-TPU.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.21 g/cc | 1.21 g/cc | ASTM D792 |

| Mechanical Properties | Metric         | English        | Comments   |
|-----------------------|----------------|----------------|------------|
| Hardness, Shore A     | 83             | 83             | ASTM D2240 |
| Tensile Strength      | 11.5 MPa       | 1670 psi       | ASTM D412  |
|                       | 4.52 MPa       | 656 psi        | ASTM D412  |
|                       | @Strain 50.0 % | @Strain 50.0 % |            |
|                       | 5.21 MPa       | 755 psi        | ASTM D412  |
|                       | @Strain 100 %  | @Strain 100 %  |            |
|                       | 6.43 MPa       | 933 psi        | ASTM D412  |
|                       | @Strain 200 %  | @Strain 200 %  |            |
| Elongation at Break   | 695 %          | 695 %          | ASTM D412  |

| Electrical Properties          | Metric         | English        | Comments                                         |
|--------------------------------|----------------|----------------|--------------------------------------------------|
| Volume Resistivity             | 2.30e+8 ohm-cm | 2.30e+8 ohm-cm | ASTM D257                                        |
| Surface Resistance             | 4.80e+7 ohm    | 4.80e+7 ohm    | 12% RH; ESD S11.11                               |
| Surface Resistivity per Square | 4.80e+8 ohm    | 4.80e+8 ohm    | 50%; ASTM D257                                   |
| Static Decay                   | 0.10 sec       | 0.10 sec       | Charged Plate Monitor, 50% RH (+1000 V to 100 V) |
|                                | <= 2.0 sec     | <= 2.0 sec     | 12% RH (+5000 V to 50 V); FTMS-101C              |

| Electrical Properties | <= 2.0 sec<br>Metric | <= 2.0 sec<br>English | 12% RH (-5000 V to -50 V); FTMS-<br>101C<br>Comments |
|-----------------------|----------------------|-----------------------|------------------------------------------------------|
|-----------------------|----------------------|-----------------------|------------------------------------------------------|

| Processing Properties | Metric           | English          | Comments             |
|-----------------------|------------------|------------------|----------------------|
| Drying Temperature    | 105 °C           | 221 °F           | dehumidifying hopper |
| Dry Time              | 2.00 - 3.00 hour | 2.00 - 3.00 hour |                      |

| Descriptive Properties | Value   | Comments |
|------------------------|---------|----------|
| Color                  | Natural |          |

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