

Stat-Rite® M809

Acrylic

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® M809 is a static dissipative acrylic alloy. Stat-Rite® M809 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.

| General Information | |
|---------------------|------------------------------------|
| Additive | Antistatic |
| Features | Antistatic |
| | Contact Clarity |
| | ESD Protection |
| | Humidity Resistant |
| | Low (to None) Ion Content |
| | Recyclable Material |
| Uses | Electrical/Electronic Applications |
| | Medical Packaging |
| | Packaging |
| Appearance | Translucent |
| Forms | Sheet |
| Processing Method | Extrusion |
| | Injection Molding |
| | Thermoforming |

| Physical | Nominal Value | Unit | Test Method |
|-----------------------------------|---------------|-------------------|-------------|
| Specific Gravity | 1.13 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1450 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 27.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 30 | % | ASTM D638 |
| Flexural Modulus | 1450 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 140 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 75.0 | °C | |
| 1.8 MPa, Unannealed | 67.0 | °C | |
| Electrical | Nominal Value | Unit | Test Method |

| | | | |
|---------------------------------------------|-------------|--------------------|-----------------|
| Surface Resistivity | | | |
| -- ¹ | 1.0E+10 | ohms | ASTM D257 |
| -- ² | 6.0E+9 | ohms | ESD S11.11 |
| Volume Resistivity | 4.0E+10 | ohms·cm | ASTM D257 |
| Static Decay - +1000 V to 10 V ³ | < 1.0 | sec | |
| Ionic Content | | | Internal Method |
| Anions Cl- | 20.0 | ng/cm ² | |
| Anions NO3- | 4.00 | ng/cm ² | |
| Anions PO4- | 15.0 | ng/cm ² | |
| Anions SO4- | 15.0 | ng/cm ² | |
| Cations Na+ | 200 | ng/cm ² | |
| Outgassing | | | Internal Method |
| MMA | 40.0 | μg/g | |
| Styrene | 15.0 | μg/g | |
| Toluene | 180 | μg/g | |
| Total Organics | 250 | μg/g | |
| NOTE | | | |
| 1. | 50% RH | | |
| 2. | 12% RH | | |
| 3. | CPM, 50% RH | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

