# Stat-Rite® M2809

Acrylic

Lubrizol Advanced Materials, Inc.

## Message:

Stat-Rite® M2809 is a static dissipative acrylic alloy. Stat-Rite® M2809 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 injection molded into components.
FEATURES
Permanently static dissipative
Humidity independent
Clean: low out-gassing, low extractable ionics
Durable: can be used for years
APPLICATIONS
Cleanroom accessories
Swab handles
Totes

| General Information | | | |
|---|---|---|---|
| Features | Antistatic | | |
| | Clean/High Purity | | |
| | Durable | | |
| | ESD Protection | | |
| | Humidity Independent | | |
| | Low (to None) Ion Content | | |
| | Low to No Outgassing | | |
| | Rapid Static Decay | | |
| Uses | Handles | | |
| | Medical/Healthcare Applications | | |
| | Tool/Tote Box | | |
| Appearance | Translucent | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.13 | g/cm³ | ASTM D792 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 1450 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 26.2 | 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 | 67.2 | °C | |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 4.0E+10 | ohms·cm | ASTM D257 |
| Static Decay - 1000 V to 10V, 50% R.H. | < 1.0 | sec | CPM |
| Surface Resistance - 12% R.H. | 6.0E+9 | ohms | ESD S11.11 |
| Surface Resistivity - 50% R.H. | 1.0E+10 | ohms/sq | ASTM D257 |
| Filler Content | IDP Alloy | | |
| Ionic Content | | | Internal Method |
| Cation Na | 200 | ng/cm² | |
| Cl Anion [1] | 20.0 | ng/cm² | |
| NO3 Anion [2] | 5.00 | ng/cm² | |
| PO4 Anion [3] | 15.0 | ng/cm² | |
| SO4 Anion [4] | 20.0 | ng/cm² | |
| Outgassing [5] | | | Internal Method |
| MMA | 40.0 | µg/g | |
| Styrene | 15.0 | µg/g | |
| Toluene | 180 | µg/g | |
| Total Organics | 250 | µg/g | |

| NOTE | |
|---|---|
| 1. | Test Method #3010-4 |
| 2. | Test Method #3010-4 |
| 3. | Test Method #3010-4 |
| 4. | Test Method #3010-4 |
| 5. | Test Method #3010-3 |



## 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