

Premix Thermoplastics PRE-ELEC® ESD 12-000 (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

PRE-ELEC ESD 12-000 is a static dissipative thermoplastic compound based on polyacetal copolymer. The dissipative property is permanent and built into the polymer chain. The products made out of PRE-ELEC ESD 12-000 are washable, reusable and recyclable. Surface resistance values of 108 ohms (EOS/ESD S11.11-1993, IEC 61340-5-1) can be achieved with optimum processing parameters. PRE-ELEC ESD 12-000 can be colored into various bright colors. Test Specimen - 4.0 mm thick, 10.0 mm wide molded rod. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-ESD-12-000-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------------|-----------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | |
| Linear Mold Shrinkage | 0.018 - 0.022 cm/cm | 0.018 - 0.022 in/in | ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|----------|
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | ISO 527 |
| Elongation at Break | 35 % | 35 % | ISO 527 |
| Tensile Modulus | 1.38 GPa | 200 ksi | ISO 527 |
| Izod Impact, Notched | 1.60 J/cm @Thickness 4.00 mm, Temperature 23.0 °C | 3.00 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F | ISO 180 |
| Izod Impact, Unnotched | NB @Thickness 4.00 mm, Temperature 23.0 °C | NB @Thickness 0.157 in, Temperature 73.4 °F | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C | 212 °F | ISO 75/Method Af |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------------------|------------------------|-------------------|
| Volume Resistivity | <= 1.00e+8 ohm-cm | <= 1.00e+8 ohm-cm | ISO D-257 |
| Surface Resistance | 1.00e+9 - 1.00e+11 ohm | 1.00e+9 - 1.00e+11 ohm | ISO D-257 |
| Static Decay | <= 2.0 sec | <= 2.0 sec | ISO IEC 61340-5-1 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|----------------------------------|------------------------------|
| Melt Temperature | 185 - 210 °C | 365 - 410 °F | |
| Mold Temperature | 80.0 - 105 °C | 176 - 221 °F | |
| Drying Temperature | 80.0 °C @Time 10800 - 14400 sec | 176 °F @Time 3.00 - 4.00 hour | Pre-drying in a dehumidifier |
| Injection Pressure | 60.0 - 80.0 MPa | 8700 - 11600 psi | |

| Descriptive Properties | Value | Comments |
|------------------------|----------|----------|
| Injection Speed | Moderate | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China