



**TRIVALENCE**

# TriLEC PC23ESD (U)

**Electrically Conductive Polycarbonate(PC)**

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## General Information

### Product Description

Electrostatic dissipative PC, impact modified.

#### FEATURES

- Good Strength
- EMI/ESD/RFI
- Medium Flow

#### ADDITIONAL FORMULAS

- Additional UV "U"
- (C, AS) grades also available.

#### COLOR

- All
- Opaque



### General

#### Typical Applications

-Transportation, defense, packaging, enclosures

#### Processing Method

-Injection/Extrusion

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Asia, Latin America

## ASTM / ISO Properties<sup>1</sup>

| Physical                               | Nominal Value                             | Unit              | Test Method         |
|--|---|-------------------|---------------------|
| Density                                | 1.28                                      | g/cm <sup>3</sup> | ASTM D792           |
| Melt Flow Rate (350°C/1.2kg)           | 14  | g/10min           | ASTM D1238          |
| Molding Shrinkage - Flow (3.2mm)       | 0.2 to 0.4                                | %                 | TVT Internal        |
| Outdoor Suitability (QUV) ("U" Grades) | Pass                                      |                   | TVT Internal        |
| Mechanical                             | Nominal Value                             | Unit              | Test Method         |
| Tensile Strength, yld                  | 7000                                      | psi               | ASTM D638           |
| Tensile Elongation, yld                | >2  | %                 | ASTM D638           |
| Flexural Modulus                       | 510,000                                   | psi               | ASTM D790           |
| Unnotched Izod Impact (73F)            | 6   | ft-lbs/in         | ASTM D256           |
| Electrical                             | Nominal Value                             | Unit              | Test Method         |
| Surface Resistivity                    | 1 x 10 <sup>9</sup> - 1x 10 <sup>11</sup> | Ω/cm <sup>3</sup> | ASTM D257           |
| Flammability                           | Nominal Value                             | Unit              | Test Method         |
| 0.06 in                                | HB  |                   | UL94 - TVT Internal |

### Recommended Processing Guidance

|                             |               |
|-----------------------------|---------------|
| Drying Temperature          | 240 to 260 °F |
| Drying Time                 | 2 to 4 Hours  |
| Suggested Max Moisture      | 0.02 %        |
| Processing Melt Temperature | 550 to 590 °F |
| Mold Temperature            | 160 to 240 °F |

<sup>1</sup> Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.