



TRIVALENCE

TriLEC PC23C (U)

Electrically Conductive Polycarbonate(PC)

General Information

Product Description

Electrically conductive PC, impact modified.

FEATURES

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

ADDITIONAL FORMULAS

- Additional UV "U"
- (ESD) 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 Properties¹

| | Nominal Value | Unit | Test Method |
|----------------------------------------|------------------------------------------|-------------------|---------------------|
| Physical | | | |
| Density | 1.29 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (350°C/1.2kg) | 18 | 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 | | | |
| 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 | | | |
| Surface Resistivity | 1 x 10 ² - 1x 10 ⁵ | Ω/cm ³ | ASTM D257 |
| Flammability | | | |
| 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