

Component – Plastics

E205256

STAR PLASTICS, INC

West Virginia, United States



MATERIAL DESIGNATION: PC7101(f1)

Product Description: Polycarbonate (PC), Furnished as Pellets

| Color | Min Thk (mm) | Flame Class | HWI | HAI | RTI Elec | RTI IMP | RTI Str |
|-------|--------------|-------------|-----|-----|----------|---------|---------|
| ALL | 1.5 | V-0 | 2 | 0 | 125 | 115 | 125 |
| | 2.4 | V-0, 5VA | 2 | 0 | 125 | 115 | 125 |
| | 3.0 | V-0, 5VA | 2 | 0 | 125 | 115 | 125 |
| | 3.8 | V-0, 5VA | 2 | 0 | 125 | 115 | 125 |
| | 6.0 | V-0, 5VA | 2 | 0 | 125 | 115 | 125 |

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): 19

Dimensional Stability (%): -

High-Voltage Arc Tracking Rate (HVTR): 0

Inclined Plane Tracking (IPT): -

Volume Resistivity (10^xohm-cm): -

High Volt, Low Current Arc Resis (D495): 7

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliance, where the acceptability of the combination is determined by UL.

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IEC AND ISO TEST METHODS

| Test Name | Test Method | Units | Thickness Tested (mm) | Value |
|--------------------------------|-------------------------------------|-------------------|-----------------------|----------------|
| Flammability | IEC 60695-11-10, IEC 60695-11-20 | Class (color) | 1.5 | V-0 (ALL) |
| | | | 2.4 | V-0, 5VA (ALL) |
| | | | 3.0 | V-0, 5VA (ALL) |
| | | | 3.8 | V-0, 5VA (ALL) |
| | | | 6.0 | V-0, 5VA (ALL) |
| Glow-Wire Flammability (GWF1) | IEC 60695-2-12 | C | 3.8 | 960 |
| | | | 6.0 | 960 |
| Glow-Wire Ignition (GWI) | IEC 60695-2-13 | C | 3.8 | 800 |
| | | | 6.0 | 800 |
| IEC Comparative Tracking Index | IEC 60112 | Volts (max) | - | - |
| IEC Ball Pressure | IEC 60695-10-2 | C | - | - |
| ISO Heat Deflection (1.80 MPa) | ISO 75-2 | C | 4.0 | 141 |
| ISO Tensile Strength | ISO 527-2 | MPa | - | - |
| ISO Flexural Strength | ISO 178 | MPa | - | - |
| ISO Tensile Impact | ISO 8256 | kJ/m ² | - | - |
| ISO Izod Impact | ISO 180 | kJ/m ² | - | - |
| ISO Charpy Impact | ISO 179-2 | kJ/m ² | - | - |

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Navigating Custom Compounds

