



## Component – Plastics

**E205256**

### Star Plastics, LLC

326 Jack Burlingame Dr, Millwood, WV 25262 USA

### Material Designation: PC721HF, R

Product Description: Polycarbonate (PC), "STAR PRIME", Furnished as Pellets

| Color | Min Thk (mm) | Flame Class | HWI | HAI | RTI Elec | RTI IMP | RTI Str |
|-------|--------------|-------------|-----|-----|----------|---------|---------|
| ALL   | 1.5          | V-2         | 3   | 4   | 80       | 80      | 80      |
|       | 3.0          | V-2         | 2   | 4   | 80       | 80      | 80      |

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): 27

Dimensional Stability (%): 0

High-Voltage Arc Tracking Rate (HVTR): 4

Inclined Plane Tracking (IPT): -

 Volume Resistivity (10<sup>9</sup>ohm-cm): 16

High Volt, Low Current Arc Resis (D495): 6

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.

(f2) – Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure, or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be 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 | Class (color)     | 1.5<br>3.0            | V-2 (ALL)<br>V-2 (ALL) |
| Glow-Wire Flammability (GWFI)  | IEC 60695-2-12  | C                 | -                     | -                      |
| Glow-Wire Ignition (GWI)       | IEC 60695-2-13  | C                 | -                     | -                      |
| 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                 | -                     | -                      |
| ISO Tensile Strength           | ISO 527-2       | MPa               | -                     | -                      |
| ISO Flexural Strength          | ISO 178         | MPa               | -                     | -                      |
| ISO Tensile Impact             | ISO 8256        | kJ/m <sup>2</sup> | -                     | -                      |
| ISO Izod Impact                | ISO 180         | kJ/m <sup>2</sup> | -                     | -                      |
| ISO Charpy Impact              | ISO 179-2       | kJ/m <sup>2</sup> | -                     | -                      |