



## Component – Plastics

E205256

### Star Plastics, LLC

326 Jack Burlingame Dr, Millwood, WV 25262 USA

### Material Designation: reNova re-PCR-FR1013(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-2         | 3   | 0   | 125      | 115     | 125     |
|       | 3.0          | V-2         | 2   | 1   | 125      | 115     | 125     |
|       | 3.5          | V-2         | -   | -   | 125      | 115     | 125     |

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 24

Dimensional Stability (%): 3

High-Voltage Arc Tracking Rate (HVTR): 0

Inclined Plane Tracking (IPT): -

Volume Resistivity ( $10^{\circ}$ ohm-cm): 15

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

(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

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 | Class (color)   | 1.5                   | V-2 (ALL) |
|                                |                 |                 | 3.0                   | V-2 (ALL) |
|                                |                 |                 | 3.5                   | V-2 (ALL) |
| Glow-Wire Flammability (GWFI)  | IEC 60695-2-12  | C               | 3.5                   | 960       |
| Glow-Wire Ignition (GWI)       | IEC 60695-2-13  | C               | 3.5                   | 775       |
| 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                   | 137       |
| ISO Tensile Strength           | ISO 527-2       | MPa             | -                     | -         |
| ISO Flexural Strength          | ISO 178         | MPa             | -                     | -         |
| ISO Tensile Impact             | ISO 8256        | $\text{kJ/m}^2$ | -                     | -         |
| ISO Izod Impact                | ISO 180         | $\text{kJ/m}^2$ | -                     | -         |
| ISO Charpy Impact              | ISO 179-2       | $\text{kJ/m}^2$ | -                     | -         |