



# Component - Plastics

File Number: E121254

## SAMYANG CORPORATION

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TRIEX: 3025G(y) (f2), 3025PG(y), 3025PGR(y), 3025GRU(y), 3025PGRU(y)

Polycarbonate (PC), pellets

(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.

(y) - Represents any number 10-19 incl.

| Flammability                          | Value           | Test Method            |
|---------------------------------------|-----------------|------------------------|
| Flame Rating                          |                 | UL 94                  |
| 1.0 mm, ALL                           | V-0             | IEC 60695-11-10, -20   |
| 1.5 mm, ALL                           | V-0             |                        |
| 2.0 mm, ALL                           | V-0, 5VB        |                        |
| 3.0 mm, ALL                           | V-0, 5VA        |                        |
| 6.0 mm, ALL                           | V-0, 5VA        |                        |
| Electrical                            | Value           | Test Method            |
| Hot-wire Ignition (HWI)               |                 | UL 746                 |
| 1.5 mm                                | PLC 2           |                        |
| 2.0 mm                                | PLC 2           |                        |
| 3.0 mm                                | PLC 2           |                        |
| 6.0 mm                                | PLC 1           |                        |
| High Amp Arc Ignition (HAI)           |                 | UL 746                 |
| 1.5 mm                                | PLC 0           |                        |
| 2.0 mm                                | PLC 0           |                        |
| 3.0 mm                                | PLC 0           |                        |
| 6.0 mm                                | PLC 0           |                        |
| Comparative Tracking Index (CTI)      | PLC 3           | UL 746                 |
| Dielectric Strength                   | 31 kV/mm        | ASTM D149              |
| High Voltage Arc Tracking Rate (HVTR) | PLC 3           | UL 746                 |
| Volume Resistivity                    | 1.0E+15 ohms·cm | ASTM D257<br>IEC 60093 |
| Arc Resistance                        | PLC 7           | ASTM D495              |
| Thermal                               | Value           | Test Method            |
| RTI Elec                              |                 | UL 746                 |
| 1.0 mm                                | 80.0 °C         |                        |
| 1.5 mm                                | 125 °C          |                        |
| 2.0 mm                                | 125 °C          |                        |
| 3.0 mm                                | 125 °C          |                        |
| 6.0 mm                                | 125 °C          |                        |
| RTI Imp                               |                 | UL 746                 |
| 1.0 mm                                | 80.0 °C         |                        |
| 1.5 mm                                | 115 °C          |                        |
| 2.0 mm                                | 115 °C          |                        |
| 3.0 mm                                | 115 °C          |                        |
| 6.0 mm                                | 115 °C          |                        |

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| Thermal               | Value   | Test Method            |
|-----------------------|---------|------------------------|
| RTI Str               |         | UL 746                 |
| 1.0 mm                | 80.0 °C |                        |
| 1.5 mm                | 125 °C  |                        |
| 2.0 mm                | 125 °C  |                        |
| 3.0 mm                | 125 °C  |                        |
| 6.0 mm                | 125 °C  |                        |
| Physical              | Value   | Test Method            |
| Dimensional Stability | 0.0 %   | ASTM D1042<br>ISO 2796 |
| Outdoor Suitability   | f2      | UL 746C                |