



# Component - Plastics

File Number: E95746

Solvay Specialty Polymers USA L L C  
4500 MCGINNIS FERRY RD, ALPHARETTA GA 30005-2203



## RYTON: R-7-120(h)(f1)

Polyphenylene Sulfide (PPS), pellets, glass reinforced, mineral reinforced

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

(h) - Where (h) is a two letter suffix representing color per supplier's designation of color

| Flammability                          | Value           | Test Method          |
|---------------------------------------|-----------------|----------------------|
| Flame Rating                          |                 | UL 94                |
| 0.75 mm, BK                           | V-0             |                      |
| 1.5 mm, BK                            | V-0, 5VA        |                      |
| 3.0 mm, BK                            | V-0, 5VA        |                      |
| 6.0 mm, BK                            | V-0, 5VA        |                      |
| Flammability Classification           |                 | IEC 60695-11-10, -20 |
| 0.75 mm, BK                           | V-0             |                      |
| 1.5 mm, BK                            | V-0, 5VA        |                      |
| 3.0 mm, BK                            | V-0, 5VA        |                      |
| 6.0 mm, BK                            | V-0, 5VA        |                      |
| Glow Wire Flammability Index          |                 | IEC 60695-2-12       |
| 0.75 mm                               | 975 °C          |                      |
| 6.0 mm                                | 975 °C          |                      |
| Glow Wire Ignition Temperature        |                 | IEC 60695-2-13       |
| 0.75 mm                               | 825 °C          |                      |
| 6.0 mm                                | 875 °C          |                      |
| Electrical                            | Value           | Test Method          |
| Hot-wire Ignition (HWI)               |                 | UL 746               |
| 0.75 mm                               | PLC 1           |                      |
| 1.5 mm                                | PLC 0           |                      |
| 3.0 mm                                | PLC 0           |                      |
| 6.0 mm                                | PLC 1           |                      |
| High Amp Arc Ignition (HAI)           |                 | UL 746               |
| 0.75 mm                               | PLC 0           |                      |
| 1.5 mm                                | PLC 0           |                      |
| 3.0 mm                                | PLC 0           |                      |
| 6.0 mm                                | PLC 0           |                      |
| Comparative Tracking Index (CTI)      | PLC 2           | UL 746               |
| Dielectric Strength                   | 13 kV/mm        | ASTM D149            |
| High Voltage Arc Tracking Rate (HVTR) | PLC 0           | UL 746               |
| Volume Resistivity                    | 1.0E+15 ohms-cm | ASTM D257            |
| Volume Resistivity                    | 1.0E+15 ohms-cm | IEC 60093            |
| Arc Resistance                        | PLC 4           | ASTM D495            |
| Comparative Tracking Index (3.00 mm)  | 250 V           | IEC 60112            |
| Electric Strength                     | 13 kV/mm        | IEC 60243-1          |

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| Thermal             | Value  | Test Method |
|---------------------|--------|-------------|
| RTI Elec            |        | UL 746      |
| 0.75 mm             | 220 °C |             |
| 1.5 mm              | 240 °C |             |
| 3.0 mm              | 240 °C |             |
| 6.0 mm              | 240 °C |             |
| RTI Imp             |        | UL 746      |
| 0.75 mm             | 200 °C |             |
| 1.5 mm              | 220 °C |             |
| 3.0 mm              | 220 °C |             |
| 6.0 mm              | 220 °C |             |
| RTI Str             |        | UL 746      |
| 0.75 mm             | 220 °C |             |
| 1.5 mm              | 240 °C |             |
| 3.0 mm              | 240 °C |             |
| 6.0 mm              | 240 °C |             |
| Physical            | Value  | Test Method |
| Outdoor Suitability | f1     | UL 746C     |

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