



Component - Plastics

File Number: E52355

Spartech L L C

11650 Lakeside Crossing Ct, St Louis MO 63146



Royalite: R59#(b), R59/R59#(b), R59#/R59#(b)

Acrylonitrile Butadiene Styrene/Polyvinylchloride (ABS/PVC), finished parts, sheets

- Followed by four or five digit numbers.

(b) - Radiant Panel (E-162) flame spread index: Less than 50; sustained flaming: less than 10 inches; no flaming strips

| Flammability | Value | Test Method |
|---|-----------------|--------------------------|
| Flame Rating | | UL 94 |
| 1.2 mm, ALL | V-1 | IEC 60695-11-10, -20 |
| 1.5 mm, ALL | V-1 | |
| 2.2 mm, ALL | V-0, 5VA | |
| 3.0 mm, ALL | V-0, 5VA | |
| Glow Wire Flammability Index (3.0 mm) | 960 °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (3.0 mm) | 850 °C | IEC 60695-2-13 |
| Electrical | Value | Test Method |
| Hot-wire Ignition (HWI) (3.0 mm) | PLC 0 | UL 746 |
| High Amp Arc Ignition (HAI) (3.0 mm) | PLC 0 | UL 746 |
| Comparative Tracking Index (CTI) | PLC 1 | UL 746 |
| Dielectric Strength | 23 kV/mm | ASTM D149 IEC 60243-1 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 3 | UL 746 |
| Volume Resistivity | 1.0E+15 ohms-cm | ASTM D257 IEC 60093 |
| Arc Resistance | PLC 7 | ASTM D495 |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746 |
| 1.2 mm | 50.0 °C | |
| 1.5 mm | 50.0 °C | |
| 2.2 mm | 85.0 °C | |
| 3.0 mm | 85.0 °C | |
| RTI Imp | | UL 746 |
| 1.2 mm | 50.0 °C | |
| 1.5 mm | 50.0 °C | |
| 2.2 mm | 70.0 °C | |
| 3.0 mm | 70.0 °C | |
| RTI Str | | UL 746 |
| 1.2 mm | 50.0 °C | |
| 1.5 mm | 50.0 °C | |
| 2.2 mm | 85.0 °C | |
| 3.0 mm | 85.0 °C | |
| Ball Pressure Test (75°C, 3.00 mm) | Pass | IEC 60695-10-2 |
| Physical | Value | Test Method |
| Dimensional Stability | 6.0E-3 % | ASTM D1042 ISO 2796 |

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