



Component - Plastics

File Number: E41179

MITSUBISHI ENGINEERING-PLASTICS CORP

ENVIRONMENT & QUALITY ASSURANCE DEPT

SHIODOME SUMITOMO-BLDG 25TH FL

1-9-2 HIGASHI-SHINBASHI

MINATO-KU, TOKYO 105-0021 Japan



Iupilon: E-2000(&4)(f1), E-2001(&4)(f1), E-2003(&4)(f1)

Polycarbonate (PC), pellets, powder, sheets, insulating material

(&4) - Suffix optional except DC and UDC.

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

| Flammability | Value | Test Method |
|---------------------------------------|----------------|----------------------|
| Flame Rating | | UL 94 |
| 0.50 mm, ALL | HB | |
| 1.5 mm, ALL | HB | |
| 3.0 mm, ALL | HB | |
| 6.0 mm, ALL | HB | |
| Flammability Classification | | IEC 60695-11-10, -20 |
| 3.0 mm, ALL | HB40 | |
| 6.0 mm, ALL | HB40 | |
| 0.50 mm, ALL | HB75 | |
| 1.5 mm, ALL | HB75 | |
| Electrical | Value | Test Method |
| Hot-wire Ignition (HWI) | | UL 746A |
| 0.50 mm | PLC 0 | |
| 1.5 mm | PLC 3 | |
| 3.0 mm | PLC 3 | |
| 6.0 mm | PLC 0 | |
| High Amp Arc Ignition (HAI) | | UL 746A |
| 0.50 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 746A |
| Dielectric Strength | 20 kV/mm | ASTM D149 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 0 | UL 746A |
| Volume Resistivity | 1.0E+7 ohms·cm | ASTM D257 |
| Volume Resistivity | 1.0E+7 ohms·cm | IEC 60093 |
| Arc Resistance | PLC 6 | ASTM D495 |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746B |
| 0.50 mm | 80.0 °C | |
| 1.5 mm | 125 °C | |
| 3.0 mm | 125 °C | |
| 6.0 mm | 125 °C | |

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| Thermal | Value | Test Method |
|---------------------|---------|-------------|
| RTI Imp | | UL 746B |
| 0.50 mm | 80.0 °C | |
| 1.5 mm | 115 °C | |
| 3.0 mm | 115 °C | |
| 6.0 mm | 115 °C | |
| RTI Str | | UL 746B |
| 0.50 mm | 80.0 °C | |
| 1.5 mm | 125 °C | |
| 3.0 mm | 125 °C | |
| 6.0 mm | 125 °C | |
| Physical | Value | Test Method |
| Dimensional Change | 0.0 % | ASTM D1042 |
| Dimensional Change | 0.0 % | ISO 2796 |
| Outdoor Suitability | f1 | UL 746C |

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