



Component - Plastics

File Number: E53664

MITSUBISHI ENGINEERING-PLASTICS CORP

ENVIRONMENT & QUALITY ASSURANCE DEPT

SHIODOME SUMITOMO-BLDG 25TH FL

1-9-2 HIGASHI-SHINBASHI

MINATO-KU, TOKYO 105-0021 Japan



NOVADURAN: 5010GN6-05

Polybutylene Terephthalate (PBT), pellets, glass reinforced

| Flammability | Value | Test Method |
|---------------------------------------|-----------------|----------------------|
| Flame Rating | | UL 94 |
| 0.70 mm, ALL | V-0 | |
| 0.75 mm, ALL | V-0 | |
| 1.5 mm, ALL | V-0 | |
| 3.0 mm, ALL | V-0 | |
| Flammability Classification | | IEC 60695-11-10, -20 |
| 0.70 mm, ALL | V-0 | |
| 0.75 mm, ALL | V-0 | |
| 1.5 mm, ALL | V-0 | |
| 3.0 mm, ALL | V-0 | |
| Electrical | Value | Test Method |
| Hot-wire Ignition (HWI) | | UL 746A |
| 0.70 mm | PLC 3 | |
| 0.75 mm | PLC 3 | |
| 1.5 mm | PLC 3 | |
| 3.0 mm | PLC 2 | |
| High Amp Arc Ignition (HAI) | | UL 746A |
| 0.70 mm | PLC 1 | |
| 0.75 mm | PLC 0 | |
| 1.5 mm | PLC 0 | |
| 3.0 mm | PLC 0 | |
| Comparative Tracking Index (CTI) | PLC 3 | UL 746A |
| Dielectric Strength | 42 kV/mm | ASTM D149 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 2 | UL 746A |
| Volume Resistivity | 1.0E+14 ohms-cm | ASTM D257 |
| Volume Resistivity | 1.0E+14 ohms-cm | IEC 60093 |
| Arc Resistance | PLC 6 | ASTM D495 |
| Thermal | Value | Test Method |
| RTI Elec | | UL 746B |
| 0.75 mm | 140 °C | |
| 1.5 mm | 140 °C | |
| 3.0 mm | 140 °C | |
| RTI Imp | | UL 746B |
| 0.75 mm | 130 °C | |
| 1.5 mm | 130 °C | |
| 3.0 mm | 130 °C | |

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| Thermal | Value | Test Method |
|--------------------|--------|-------------|
| RTI Str | | UL 746B |
| 0.75 mm | 140 °C | |
| 1.5 mm | 140 °C | |
| 3.0 mm | 140 °C | |
| Physical | Value | Test Method |
| Dimensional Change | 0.0 % | ASTM D1042 |
| Dimensional Change | 0.0 % | ISO 2796 |

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