# 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

## Iupiace: GV30+

Polyphenylene Oxide (PPHOX), pellets

+ - Suffix optional, exceptions: The following cannot be used as optional suffixes: "NF" for grade NXG5050, "N" for grade NXG5030, "N" for grade MB2112+, "S1" for grade F20-54, "V" for grades S-2000+(f1), S-2001+(f1), S-2003+(f1), the last letter "L" for grade CFH2520+, "W" for ELV2010 included in Grade ELV20(a5)+.

| Flammability | Value | Test Method |
|---|---|---|
| Flame Rating | | UL 94 |
| 0.75 mm, ALL | V-1 | |
| 1.5 mm, ALL | V-1 | |
| 3.0 mm, ALL | V-1 | |
| Flammability Classification | | IEC 60695-11-10, -20 |
| 0.75 mm, ALL | V-1 | |
| 1.5 mm, ALL | V-1 | |
| 3.0 mm, ALL | V-1 | |
| **Electrical** | **Value** | **Test Method** |
| Hot-wire Ignition (HWI) | | UL 746A |
| 1.5 mm | PLC 1 | |
| 3.0 mm | PLC 1 | |
| High Amp Arc Ignition (HAI) | | UL 746A |
| 1.5 mm | PLC 0 | |
| 3.0 mm | PLC 0 | |
| Comparative Tracking Index (CTI) | PLC 3 | UL 746A |
| Dielectric Strength | 31 kV/mm | ASTM D149 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 0 | UL 746A |
| Volume Resistivity | 1.0E+15 ohms·cm | ASTM D257 |
| Volume Resistivity | 1.0E+15 ohms·cm | IEC 60093 |
| Arc Resistance | PLC 7 | ASTM D495 |
| **Thermal** | **Value** | **Test Method** |
| RTI Elec | | UL 746B |
| 0.75 mm | 110 °C | |
| 1.5 mm | 110 °C | |
| 3.0 mm | 110 °C | |
| RTI Imp | | UL 746B |
| 0.75 mm | 105 °C | |
| 1.5 mm | 105 °C | |
| 3.0 mm | 105 °C | |
| RTI Str | | UL 746B |
| 0.75 mm | 110 °C | |
| 1.5 mm | 110 °C | |
| 3.0 mm | 110 °C | |
| **Physical** | **Value** | **Test Method** |
| Dimensional Change | 0.0 % | ASTM D1042 |



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Last Revised: 10/24/2003

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| Physical | Value | Test Method |
|---|---|---|
| Dimensional Change | 0.0 % | ISO 2796 |

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