



# 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



### Iupiac: GH30+

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                          | HB              |                      |
| 1.5 mm, ALL                           | HB              |                      |
| 3.0 mm, ALL                           | HB              |                      |
| Flammability Classification           |                 | IEC 60695-11-10, -20 |
| 3.0 mm, ALL                           | HB40            |                      |
| 0.75 mm, ALL                          | HB75            |                      |
| 1.5 mm, ALL                           | HB75            |                      |
| Electrical                            | Value           | Test Method          |
| Hot-wire Ignition (HWI)               |                 | UL 746A              |
| 1.5 mm                                | PLC 1           |                      |
| 3.0 mm                                | PLC 0           |                      |
| 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                   | 27 kV/mm        | ASTM D149            |
| High Voltage Arc Tracking Rate (HVTR) | PLC 0           | UL 746A              |
| Volume Resistivity                    | 1.0E+16 ohms-cm | ASTM D257            |
| Volume Resistivity                    | 1.0E+16 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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| Physical           | Value | Test Method |
|--------------------|-------|-------------|
| Dimensional Change | 0.0 % | ISO 2796    |

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