

# Iupiace® GN10

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

## Message:

Iupiace® GN10 is a Polyphenylene Ether + PS (PPE+PS) material filled with 10% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupiace® GN10: Flame Rated.

| General Information                         |                                   |                        |             |
|---------------------------------------------|-----------------------------------|------------------------|-------------|
| UL YellowCard                               | E41179-232050                     |                        |             |
| Filler / Reinforcement                      | Glass Fiber, 10% Filler by Weight |                        |             |
| Processing Method                           | Injection Molding                 |                        |             |
| Physical                                    | Nominal Value                     | Unit                   | Test Method |
| Density                                     | 1.17                              | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (300°C/2.16 kg) | 6.00                              | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                           |                                   |                        |             |
| Across Flow : 3.20 mm                       | 0.30 to 0.50                      | %                      |             |
| Flow : 3.20 mm                              | 0.20 to 0.40                      | %                      |             |
| Water Absorption (Saturation, 23°C)         | 0.060                             | %                      | ISO 62      |
| Mechanical                                  | Nominal Value                     | Unit                   | Test Method |
| Tensile Modulus (23°C)                      | 4500                              | MPa                    | ISO 527-2   |
| Tensile Stress (Break, 23°C)                | 83.0                              | MPa                    | ISO 527-2   |
| Tensile Strain (Break, 23°C)                | 2.5                               | %                      | ISO 527-2   |
| Flexural Modulus (23°C)                     | 4300                              | MPa                    | ISO 178     |
| Flexural Stress (23°C)                      | 140                               | MPa                    | ISO 178     |
| Impact                                      | Nominal Value                     | Unit                   | Test Method |
| Charpy Notched Impact Strength (23°C)       | 7.0                               | kJ/m <sup>2</sup>      | ISO 179     |
| Thermal                                     | Nominal Value                     | Unit                   | Test Method |
| Heat Deflection Temperature                 |                                   |                        |             |
| 0.45 MPa, Unannealed                        | 127                               | °C                     | ISO 75-2/B  |
| 1.8 MPa, Unannealed                         | 120                               | °C                     | ISO 75-2/A  |
| CLTE                                        |                                   |                        | ISO 11359-2 |
| Flow                                        | 4.5E-5                            | cm/cm/°C               |             |
| Transverse                                  | 7.5E-5                            | cm/cm/°C               |             |
| Electrical                                  | Nominal Value                     | Unit                   | Test Method |
| Surface Resistivity                         | 2.0E+15                           | ohms                   | IEC 60093   |
| Volume Resistivity                          | 3.0E+16                           | ohms · cm              | IEC 60093   |
| Comparative Tracking Index                  | 200                               | V                      | IEC 60112   |
| Flammability                                | Nominal Value                     | Unit                   | Test Method |
| Flame Rating                                |                                   |                        | UL 94       |
| 0.750 mm                                    | V-0                               |                        |             |

| 3.00 mm            | 5VA           |      |
|--------------------|---------------|------|
| Injection          | Nominal Value | Unit |
| Drying Temperature | 100 to 120    | °C   |
| Drying Time        | 2.0 to 4.0    | hr   |
| Rear Temperature   | 260 to 290    | °C   |
| Middle Temperature | 280 to 310    | °C   |
| Front Temperature  | 280 to 310    | °C   |
| Nozzle Temperature | 270 to 310    | °C   |
| Mold Temperature   | 90.0 to 125   | °C   |
| Injection Pressure | 20.0 to 150   | MPa  |
| Injection Rate     | Moderate      |      |
| Screw Speed        | 60 to 150     | rpm  |

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