

## Iuplace™ GH30

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

### General Information

#### Product Description

GF-reinforced / HB ; GF 30%

#### General

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight                                                                                |
| Features               | • Flame Retardant                                                                                                  |
| Uses                   | • Automotive Applications<br>• Automotive Electronics<br>• Electrical/Electronic Applications<br>• General Purpose |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                    | Nominal Value | Unit                   | Test Method     |
|---------------------------------------------|---------------|------------------------|-----------------|
| Density                                     | 1.31          | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (300°C/2.16 kg) | 2.7           | cm <sup>3</sup> /10min | ISO 1133        |
| Molding Shrinkage                           |               |                        | Internal Method |
| Across Flow : 3.20 mm                       | 0.20 to 0.40  | %                      |                 |
| Flow : 3.20 mm                              | 0.10 to 0.20  | %                      |                 |
| Water Absorption (Saturation, 23°C)         | 0.060         | %                      | ISO 62          |
| Mechanical                                  | Nominal Value | Unit                   | Test Method     |
| Tensile Modulus                             | 8900          | MPa                    | ISO 527-1/1     |
| Tensile Stress (Break)                      | 103           | MPa                    | ISO 527-2/5     |
| Tensile Strain (Break)                      | 1.3           | %                      | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup>               | 8400          | MPa                    | ISO 178         |
| Flexural Stress <sup>2</sup>                | 170           | MPa                    | ISO 178         |
| Impact                                      | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength (23°C)       | 8.0           | kJ/m <sup>2</sup>      | ISO 179         |
| Thermal                                     | Nominal Value | Unit                   | Test Method     |
| Deflection Temperature Under Load           |               |                        |                 |
| 0.45 MPa, Unannealed                        | 142           | °C                     | ISO 75-2/B      |
| 1.8 MPa, Unannealed                         | 130           | °C                     | ISO 75-2/A      |
| CLTE                                        |               |                        | ISO 11359-2     |
| Flow                                        | 2.5E-5        | cm/cm/°C               |                 |
| Transverse                                  | 6.0E-5        | cm/cm/°C               |                 |
| Electrical                                  | Nominal Value | Unit                   | Test Method     |
| Surface Resistivity                         | 6.0E+15       | ohms                   | IEC 60093       |
| Volume Resistivity                          | 3.0E+16       | ohms·cm                | IEC 60093       |
| Electric Strength                           |               |                        | IEC 60243-1     |
| 1.00 mm                                     | 30            | kV/mm                  |                 |
| 3.00 mm                                     | 17            | kV/mm                  |                 |
| Comparative Tracking Index                  | 150           | V                      | IEC 60112       |

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| Flammability           | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (0.75 mm) | HB            |      | UL 94       |

### Processing Information

| Injection                          | Nominal Value | Unit |
|------------------------------------|---------------|------|
| Drying Temperature - Hot Air Dryer | 100 to 120    | °C   |
| Drying Time - Hot Air Dryer        | 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 to 125     | °C   |
| Injection Pressure                 | 20.0 to 150   | MPa  |
| Injection Rate                     | Moderate      |      |
| Screw Speed                        | 60 to 150     | rpm  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min

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