

## Iupilon™ MB8900

Mitsubishi Engineering-Plastics Corp - Polycarbonate + ABS

| General Information                                                                     |                                                        |             |                          |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------|-------------|--------------------------|
| Product Description                                                                     |                                                        |             |                          |
| PC/ABS, Flame Retardant (Phosphoric acid), Ultra-High Flowability, High Impact Strength |                                                        |             |                          |
| General                                                                                 |                                                        |             |                          |
| Additive                                                                                | • Flame Retardant                                      |             |                          |
| Features                                                                                | • Flame Retardant                                      | • High Flow | • High Impact Resistance |
| Uses                                                                                    | • Electrical/Electronic Applications • General Purpose |             | • Housings               |
| ASTM & ISO Properties <sup>1</sup>                                                      |                                                        |             |                          |
| Physical                                                                                | Nominal Value                                          | Unit        | Test Method              |
| Density                                                                                 | 1.20                                                   | g/cm³       | ISO 1183                 |
| Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)                                               | 25                                                     | g/10 min    | ISO 1133                 |
| Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)                                             | 23                                                     | cm³/10min   | ISO 1133                 |
| Molding Shrinkage                                                                       |                                                        |             | Internal Method          |
| Across Flow                                                                             | 0.25 to 0.45                                           | %           |                          |
| Flow                                                                                    | 0.25 to 0.45                                           | %           |                          |
| Water Absorption (24 hr, 23°C)                                                          | 0.20                                                   | %           | Internal Method          |
| Mechanical                                                                              | Nominal Value                                          | Unit        | Test Method              |
| Tensile Modulus                                                                         | 2800                                                   | MPa         | ISO 527-1/1              |
| Tensile Stress (Yield)                                                                  | 55.0                                                   | MPa         | ISO 527-2/50             |
| Tensile Strain                                                                          |                                                        |             | ISO 527-2/50             |
| Yield                                                                                   | 3.5                                                    | %           |                          |
| Break                                                                                   | 44                                                     | %           |                          |
| Flexural Modulus <sup>2</sup>                                                           | 2600                                                   | MPa         | ISO 178                  |
| Flexural Stress <sup>2</sup>                                                            | 88.0                                                   | MPa         | ISO 178                  |
| Impact                                                                                  | Nominal Value                                          | Unit        | Test Method              |
| Charpy Notched Impact Strength (23°C)                                                   | 30                                                     | kJ/m²       | ISO 179                  |
| Charpy Unnotched Impact Strength (23°C)                                                 | No Break                                               |             | ISO 179                  |
| Thermal                                                                                 | Nominal Value                                          | Unit        | Test Method              |
| Deflection Temperature Under Load                                                       |                                                        |             |                          |
| 0.45 MPa, Unannealed                                                                    | 86.0                                                   | °C          | ISO 75-2/B               |
| 1.8 MPa, Unannealed                                                                     | 77.0                                                   | °C          | ISO 75-2/A               |
| Flammability                                                                            | Nominal Value                                          | Unit        | Test Method              |
| Flame Rating                                                                            |                                                        |             | UL 94                    |
| 1.0 mm                                                                                  | V-1                                                    |             |                          |
| 1.5 mm                                                                                  | 5VB                                                    |             |                          |



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| Processing Information             |               |      |
|------------------------------------|---------------|------|
| Injection                          | Nominal Value | Unit |
| Drying Temperature - Hot Air Dryer | 80            | °C   |
| Drying Time - Hot Air Dryer        | 4.0 to 8.0    | hr   |
| Rear Temperature                   | 220 to 270    | °C   |
| Middle Temperature                 | 220 to 270    | °C   |
| Front Temperature                  | 220 to 270    | °C   |
| Nozzle Temperature                 | 220 to 270    | °C   |
| Mold Temperature                   | 50 to 70      | °C   |

