

## Iupiace™ LMX420N

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

### General Information

#### Product Description

Flow, good; Reinforced (20%); Flame Retardant, V-0

#### General

|                        |                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight                                                                          |
| Additive               | • Flame Retardant                                                                                            |
| Features               | • Flame Retardant • Good Flow                                                                                |
| Uses                   | • Automotive Applications • Electrical/Electronic Applications<br>• Automotive Electronics • General Purpose |

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

| Physical                                                 | Nominal Value | Unit                   | Test Method     |
|----------------------------------------------------------|---------------|------------------------|-----------------|
| Density                                                  | 1.34          | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)               | 40            | 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                                           | 0.20 to 0.40  | %                      |                 |
| Water Absorption (Saturation, 23°C)                      | 0.060         | %                      | ISO 62          |
| Mechanical                                               | Nominal Value | Unit                   | Test Method     |
| Tensile Modulus                                          | 6000          | MPa                    | ISO 527-1/1     |
| Tensile Stress (Break)                                   | 60.0          | MPa                    | ISO 527-2/5     |
| Tensile Strain (Break)                                   | 3.0           | %                      | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup>                            | 6000          | MPa                    | ISO 178         |
| Flexural Stress <sup>2</sup>                             | 105           | MPa                    | ISO 178         |
| Impact                                                   | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength (23°C)                    | 2.0           | kJ/m <sup>2</sup>      | ISO 179         |
| Thermal                                                  | Nominal Value | Unit                   | Test Method     |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed | 105           | °C                     | ISO 75-2/A      |
| CLTE                                                     |               |                        | ISO 11359-2     |
| Flow                                                     | 4.0E-5        | cm/cm/°C               |                 |
| Transverse                                               | 5.5E-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       |
| Flammability                                             | Nominal Value | Unit                   | Test Method     |
| Flame Rating (1.5 mm)                                    | V-0           |                        | UL 94           |

#### 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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