

Iupilon HL-3000

PC

Mitsubishi Engineering-Plastics Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 32 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Melt flow index, MFI | 34 | g/10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2400 | MPa | ISO 527 |
| Yield stress | 63 | MPa | ISO 527 |
| Yield strain | 6.6 | % | ISO 527 |
| Strain at break | 120 | % | ISO 527 |
| Flexural modulus, 23°C | 2400 | MPa | ISO 178 |
| Flexural strength | 97 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 50 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 125 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 140 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 65 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 66 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 0.4 | mm | - |
| Yellow Card available | yes | - | - |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------------|-------|-------|---------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | 3.1 | - | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 90 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 3E14 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 6E15 | Ohm | IEC 62631-3-2 |
| Electric strength | 31 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 325 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|----------------|
| Water absorption | 0.24 | % | Sim. to ISO 62 |
| Density | 1200 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 110 - 120 | °C | - |
| Pre-drying - Time | 4 - 8 | h | - |
| Mold temperature | 80 - 120 | °C | - |
| Zone 1 | 280 - 360 | °C | - |
| Zone 2 | 280 - 360 | °C | - |
| Zone 3 | 280 - 360 | °C | - |
| Nozzle temperature | 280 - 360 | °C | - |

Characteristics

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Processing

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

Features

Light Guiding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa