# Infino EM-8250G

Polyphenylene Ether

SAMSUNG SDI CO., LTD.

## Message:

Infino EM-8250G is a Polyphenylene Ether (PPE) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

| General Information | | | |
|---|---|---|---|
| UL YellowCard | E115797-100780540 | | |
| Filler / Reinforcement | Glass Fiber | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.20 | g/cm³ | ASTM D792, ISO 1183 |
| Melt Mass-Flow Rate (MFR) (280°C/10.0 kg) | 18 | g/10 min | ASTM D1238, ISO 1133 |
| Molding Shrinkage | | | ASTM D955, ISO 2577 |
| Flow : 3.20 mm | 0.25 | % | |
| Across Flow : 3.20 mm | 0.29 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 116 | | ASTM D785, ISO 2039-2 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | | | |
| -- [1] | 98.0 | MPa | ASTM D638 |
| -- | 6000 | MPa | ISO 527-2/5 |
| Tensile Strength | | | |
| Yield [2] | 98.0 | MPa | ASTM D638 |
| Yield | 110 | MPa | ISO 527-2/5 |
| Break [3] | 98.0 | MPa | ASTM D638 |
| Break | 110 | MPa | ISO 527-2/5 |
| Tensile Elongation | | | |
| Break [4] | 3.0 | % | ASTM D638 |
| Break | 3.0 | % | ISO 527-2/5 |
| Flexural Modulus | | | |
| -- [5] | 5500 | MPa | ASTM D790 |
| -- [6] | 6600 | MPa | ISO 178 |
| Flexural Strength | | | |
| -- [7] | 140 | MPa | ASTM D790 |
| -- [8] | 155 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength [9] (23°C) | 9.2 | kJ/m² | ISO 179/1eA |
| Notched Izod Impact | | | |
| 23°C, 3.18 mm | 88 | J/m | ASTM D256 |

| | | | |
|---|---|---|---|
| 23°C, 6.35 mm | 79 | J/m | ASTM D256 |
| 23°C [10] | 8.6 | kJ/m² | ISO 180/1A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | |
| 0.45 MPa, Unannealed, 6.40 mm | 134 | °C | ASTM D648 |
| 0.45 MPa, Unannealed, 4.00 mm | 136 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed, 6.40 mm | 131 | °C | ASTM D648 |
| 1.8 MPa, Unannealed, 4.00 mm | 131 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 137 | °C | ISO 306/B50 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity [11] | 1.0E+4 to 1.0E+7 | ohms | ASTM D257, IEC 60093 |
| ESD [12] (23°C) | 0.1 | sec | JIS L1094 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (3.00 mm) | HB | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | | | |
| -- | 100 | °C | |
| Desiccant Dryer | 100 | °C | |
| Drying Time | | | |
| -- | 2.0 to 4.0 | hr | |
| Desiccant Dryer | 2.0 to 4.0 | hr | |
| Suggested Max Moisture | < 0.050 | % | |
| Rear Temperature | 270 to 280 | °C | |
| Middle Temperature | 290 to 300 | °C | |
| Front Temperature | 305 to 310 | °C | |
| Nozzle Temperature | 300 | °C | |
| Mold Temperature | 50.0 to 100 | °C | |
| Injection Pressure | 49.0 to 245 | MPa | |
| Back Pressure | 0.490 to 1.96 | MPa | |
| Screw Speed | 50 to 150 | rpm | |

| NOTE | |
|---|---|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 5.0 mm/min |
| 4. | 5.0 mm/min |
| 5. | 2.8 mm/min |
| 6. | 2.0 mm/min |
| 7. | 2.8 mm/min |
| 8. | 2.0 mm/min |
| 9. | Thickness: 4 mm |
| 10. | Thickness: 4 mm |
| 11. | 23°C, 50% RH |

| | |
|---|---|
| 12. | 50% RH |



## Recommended distributors for this material

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