

# Infino NE-1050

Polycarbonate + ABS  
SAMSUNG SDI CO., LTD.

Message:

Infino NE-1050 is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Characteristics include:

Flame Rated  
RoHS Compliant

| General Information                                |                   |                   |                      |
|----------------------------------------------------|-------------------|-------------------|----------------------|
| UL YellowCard                                      | E115797-100765000 |                   |                      |
| RoHS Compliance                                    | RoHS Compliant    |                   |                      |
| Physical                                           | Nominal Value     | Unit              | Test Method          |
| Specific Gravity                                   | 1.19              | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)          | 40                | g/10 min          | ASTM D1238, ISO 1133 |
| Molding Shrinkage - Flow (3.20 mm)                 | 0.50 to 0.70      | %                 | ASTM D955            |
| Hardness                                           | Nominal Value     | Unit              | Test Method          |
| Rockwell Hardness                                  |                   |                   |                      |
| R-Scale                                            | 118               |                   | ASTM D785            |
| R-Scale                                            | 120               |                   | ISO 2039-2           |
| Mechanical                                         | Nominal Value     | Unit              | Test Method          |
| Tensile Modulus                                    |                   |                   |                      |
| -- <sup>1</sup>                                    | 2300              | MPa               | ASTM D638            |
| --                                                 | 2300              | MPa               | ISO 527-2/50         |
| Tensile Strength                                   |                   |                   |                      |
| Yield <sup>2</sup>                                 | 63.0              | MPa               | ASTM D638            |
| Yield                                              | 58.0              | MPa               | ISO 527-2/50         |
| Break <sup>3</sup>                                 | 49.0              | MPa               | ASTM D638            |
| Break                                              | 49.0              | MPa               | ISO 527-2/50         |
| Tensile Strain (Break)                             | 51                | %                 | ISO 527-2/50         |
| Flexural Modulus                                   |                   |                   |                      |
| -- <sup>4</sup>                                    | 2400              | MPa               | ASTM D790            |
| -- <sup>5</sup>                                    | 2400              | MPa               | ISO 178              |
| Flexural Strength                                  |                   |                   |                      |
| -- <sup>6</sup>                                    | 83.0              | MPa               | ASTM D790            |
| -- <sup>7</sup>                                    | 83.0              | MPa               | ISO 178              |
| Impact                                             | Nominal Value     | Unit              | Test Method          |
| Charpy Notched Impact Strength <sup>8</sup> (23°C) | 20                | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Notched Izod Impact (23°C, 3.18 mm)                | 490               | J/m               | ASTM D256            |
| Thermal                                            | Nominal Value     | Unit              | Test Method          |

|                                   |                 |      |              |
|-----------------------------------|-----------------|------|--------------|
| Deflection Temperature Under Load |                 |      |              |
| 0.45 MPa, Unannealed, 6.40 mm     | 96.0            | °C   | ASTM D648    |
| 0.45 MPa, Unannealed, 4.00 mm     | 95.0            | °C   | ISO 75-2/B   |
| 0.45 MPa, Annealed                | 99.0            | °C   | ISO 75-2/B   |
| 1.8 MPa, Unannealed, 6.40 mm      | 89.0            | °C   | ASTM D648    |
| 1.8 MPa, Unannealed, 4.00 mm      | 84.0            | °C   | ISO 75-2/A   |
| 1.8 MPa, Annealed, 4.00 mm        | 96.0            | °C   | ISO 75-2/A   |
| Vicat Softening Temperature       |                 |      |              |
| --                                | 100             | °C   | ISO 306/B50  |
| --                                | 104             | °C   | ISO 306/B120 |
| Flammability                      | Nominal Value   |      | Test Method  |
| Flame Rating                      |                 |      | UL 94        |
| 1.50 mm                           | V-0             |      |              |
| 2.00 mm                           | V-0             |      |              |
| Injection                         | Nominal Value   | Unit |              |
| Drying Temperature                |                 |      |              |
| --                                | 80.0            | °C   |              |
| Desiccant Dryer                   | 80.0            | °C   |              |
| Drying Time                       |                 |      |              |
| --                                | 4.0 to 6.0      | hr   |              |
| Desiccant Dryer                   | 2.0 to 4.0      | hr   |              |
| Suggested Max Moisture            | < 0.050         | %    |              |
| Rear Temperature                  | 220 to 230      | °C   |              |
| Middle Temperature                | 240 to 250      | °C   |              |
| Front Temperature                 | 260 to 270      | °C   |              |
| Nozzle Temperature                | 270             | °C   |              |
| Mold Temperature                  | 50.0 to 70.0    | °C   |              |
| Injection Pressure                | 88.3            | MPa  |              |
| Back Pressure                     | 0.490 to 1.96   | MPa  |              |
| Screw Speed                       | 50 to 150       | rpm  |              |
| NOTE                              |                 |      |              |
| 1.                                | 50 mm/min       |      |              |
| 2.                                | 50 mm/min       |      |              |
| 3.                                | 50 mm/min       |      |              |
| 4.                                | 2.8 mm/min      |      |              |
| 5.                                | 2.0 mm/min      |      |              |
| 6.                                | 2.8 mm/min      |      |              |
| 7.                                | 2.0 mm/min      |      |              |
| 8.                                | Thickness: 4 mm |      |              |

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