

# Kinta NB6640G

Polyamide 66

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta NB6640G is a polyamide 66 (nylon 66) product, which contains a 45% glass fiber reinforced material. It is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

| General Information                                              |                                                       |                   |             |
|------------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                           | Glass fiber reinforced material, 45% filler by weight |                   |             |
| Physical                                                         | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                                 | 1.50                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.00 mm)                               | 0.30 - 0.70                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                                   | 0.60                                                  | %                 | ASTM D570   |
| Hardness                                                         | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                      | 125                                                   |                   | ASTM D785   |
| Mechanical                                                       | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                                    | 185                                                   | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                          | 7.0                                                   | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                                    | 11000                                                 | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>                                   | 285                                                   | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)                              | 15.0                                                  | kJ/m <sup>2</sup> | ASTM D256   |
| Thermal                                                          | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 250                                                   | °C                | ASTM D648   |
| Melting Temperature                                              | 260                                                   | °C                | DSC         |
| CLTE - Flow                                                      | 2.0E-5 - 3.0E-5                                       | cm/cm/°C          | ASTM D696   |
| Electrical                                                       | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                                               | 1.0E+15                                               | ohms · cm         | ASTM D257   |
| Dielectric Strength                                              | 20                                                    | kV/mm             | ASTM D149   |
| Dissipation Factor <sup>5</sup> (23°C, 1 MHz)                    | 0.020                                                 |                   | ASTM D150   |
| Arc Resistance                                                   | 110                                                   | sec               | ASTM D495   |
| Flammability                                                     | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (3.2 mm)                                            | HB                                                    |                   | UL 94       |
| Injection                                                        | Nominal Value                                         | Unit              |             |
| Drying Temperature                                               | 110 - 130                                             | °C                |             |
| Drying Time                                                      | 4.0                                                   | hr                |             |
| Rear Temperature                                                 | 250 - 270                                             | °C                |             |
| Middle Temperature                                               | 260 - 280                                             | °C                |             |
| Front Temperature                                                | 270 - 290                                             | °C                |             |
| Nozzle Temperature                                               | 280 - 300                                             | °C                |             |

|                        |           |     |
|------------------------|-----------|-----|
| Processing (Melt) Temp | 270 - 300 | °C  |
| Mold Temperature       | 90 - 120  | °C  |
| Injection Pressure     | 100 - 160 | MPa |

#### NOTE

- |    |            |
|----|------------|
| 1. | 10 mm/min  |
| 2. | 10 mm/min  |
| 3. | 2.0 mm/min |
| 4. | 2.0 mm/min |
| 5. | 60% RH     |

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