

# Kinta FR5010G

Polycarbonate

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta FR5010G is a polycarbonate (PC) product that contains a 10% 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, 10% filler by weight |                   |             |
| Physical                                                         | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                                 | 1.25                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                         | 12                                                    | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.00 mm)                               | 0.50 - 0.70                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                                   | 0.12                                                  | %                 | ASTM D570   |
| Hardness                                                         | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                      | 120                                                   |                   | ASTM D785   |
| Mechanical                                                       | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                                    | 66.0                                                  | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                          | 15                                                    | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                                    | 3450                                                  | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>                                   | 105                                                   | 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) | 128                                                   | °C                | ASTM D648   |
| CLTE - Flow                                                      | 3.2E-5                                                | cm/cm/°C          | ASTM D696   |
| Electrical                                                       | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                                               | 1.0E+19                                               | ohms · cm         | ASTM D257   |
| Flammability                                                     | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (3.2 mm)                                            | V-0                                                   |                   | UL 94       |
| Injection                                                        | Nominal Value                                         | Unit              |             |
| Drying Temperature                                               | 110 - 120                                             | °C                |             |
| Drying Time                                                      | 4.0                                                   | hr                |             |
| Rear Temperature                                                 | 250 - 270                                             | °C                |             |
| Middle Temperature                                               | 260 - 280                                             | °C                |             |
| Front Temperature                                                | 270 - 290                                             | °C                |             |
| Nozzle Temperature                                               | 270 - 290                                             | °C                |             |
| Processing (Melt) Temp                                           | 260 - 290                                             | °C                |             |
| Mold Temperature                                                 | 80 - 110                                              | °C                |             |
| NOTE                                                             |                                                       |                   |             |

|    |            |
|----|------------|
| 1. | 20 mm/min  |
| 2. | 20 mm/min  |
| 3. | 2.0 mm/min |
| 4. | 2.0 mm/min |

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