

# Kingfa PA6-G50

Polyamide 6

Kingfa

Message:

Kingfa PA6-G50 is a polyamide 6 (nylon 6) material, which contains a 50% glass fiber reinforced material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PA6-G50 are:

flame retardant/rated flame

anti-warping

beautiful

Impact resistance

Typical application areas include:

electrical appliances

Tools

Automotive Industry

Sporting goods

| General Information                     |                                                       |                   |             |
|-----------------------------------------|-------------------------------------------------------|-------------------|-------------|
| UL YellowCard                           | E171666-225722                                        | E171666-101706367 |             |
| Filler / Reinforcement                  | Glass fiber reinforced material, 50% filler by weight |                   |             |
| Features                                | Bending resistance                                    |                   |             |
|                                         | Low temperature impact resistance                     |                   |             |
|                                         | Excellent appearance                                  |                   |             |
| Uses                                    | Electrical appliances                                 |                   |             |
|                                         | Power/other tools                                     |                   |             |
|                                         | Application in Automobile Field                       |                   |             |
|                                         | Sporting goods                                        |                   |             |
| Forms                                   | Particle                                              |                   |             |
| Processing Method                       | Injection molding                                     |                   |             |
| Physical                                | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                        | 1.56                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                       |                                                       |                   | ASTM D955   |
| Flow: 23°C                              | 0.20                                                  | %                 | ASTM D955   |
| Transverse flow: 23°C                   | 0.70                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)          | 0.60                                                  | %                 | ASTM D570   |
| Hardness                                | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)             | 122                                                   |                   | ASTM D785   |
| Mechanical                              | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength <sup>1</sup>           | 195                                                   | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break) | 4.1                                                   | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>           | 13000                                                 | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>          | 295                                                   | MPa               | ASTM D790   |

| Impact                              | Nominal Value | Unit    | Test Method |
|-------------------------------------|---------------|---------|-------------|
| Notched Izod Impact (23°C, 3.20 mm) | 200           | J/m     | ASTM D256   |
| Thermal                             | Nominal Value | Unit    | Test Method |
| Deflection Temperature Under Load   |               |         | ASTM D648   |
| 0.45 MPa, unannealed, 6.40mm        | 220           | °C      | ASTM D648   |
| 1.8 MPa, unannealed, 6.40mm         | 214           | °C      | ASTM D648   |
| Electrical                          | Nominal Value | Unit    | Test Method |
| Volume Resistivity                  | 1.0E+16       | ohms·cm | ASTM D257   |
| Flammability                        | Nominal Value | Unit    | Test Method |
| Flame Rating                        |               |         | UL 94       |
| 1.50 mm                             | HB            |         | UL 94       |
| 3.00 mm                             | HB            |         | UL 94       |
| Injection                           | Nominal Value | Unit    |             |
| Drying Temperature                  | 90.0 - 110    | °C      |             |
| Drying Time                         | 4.0 - 6.0     | hr      |             |
| Rear Temperature                    | 225 - 245     | °C      |             |
| Middle Temperature                  | 250 - 270     | °C      |             |
| Front Temperature                   | 260 - 280     | °C      |             |
| Processing (Melt) Temp              | 255 - 285     | °C      |             |
| Mold Temperature                    | 50.0 - 70.0   | °C      |             |
| Injection Rate                      | Moderate-Fast |         |             |
| Injection instructions              |               |         |             |
| Processing Temperature Limit: 300°C |               |         |             |
| NOTE                                |               |         |             |
| 1.                                  | 10 mm/min     |         |             |
| 2.                                  | 10 mm/min     |         |             |
| 3.                                  | 2.0 mm/min    |         |             |
| 4.                                  | 2.0 mm/min    |         |             |

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#### Recommended distributors for this material

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