

# Kingfa PA66-G30

Polyamide 66

Kingfa

## Message:

Kingfa PA66-G30 is a polyamide 66 (nylon 66) material, which contains a 30% 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 PA66-G30 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                  | E171666-225725                                        |                   |             |
| Filler / Reinforcement         | Glass fiber reinforced material, 30% 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               | 1.37                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage              |                                                       |                   | ASTM D955   |
| Flow: 23°C                     | 0.40                                                  | %                 | ASTM D955   |
| Transverse flow: 23°C          | 0.90                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr) | 0.60                                                  | %                 | ASTM D570   |
| Hardness                       | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)    | 121                                                   |                   | ASTM D785   |
| Mechanical                     | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength <sup>1</sup>  | 180                                                   | MPa               | ASTM D638   |
| Flexural Modulus <sup>2</sup>  | 8500                                                  | MPa               | ASTM D790   |
| Flexural Strength <sup>3</sup> | 255                                                   | MPa               | ASTM D790   |
| Impact                         | Nominal Value                                         | Unit              | Test Method |

|                                     |               |         |             |
|-------------------------------------|---------------|---------|-------------|
| Notched Izod Impact (23°C, 3.20 mm) | 120           | J/m     | ASTM D256   |
| Thermal                             | Nominal Value | Unit    | Test Method |
| Deflection Temperature Under Load   |               |         | ASTM D648   |
| 0.45 MPa, unannealed, 6.40mm        | 256           | °C      | ASTM D648   |
| 1.8 MPa, unannealed, 6.40mm         | 250           | °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       |
| 1.60 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                    | 260 - 280     | °C      |             |
| Middle Temperature                  | 265 - 300     | °C      |             |
| Front Temperature                   | 275 - 305     | °C      |             |
| Processing (Melt) Temp              | 275 - 310     | °C      |             |
| Mold Temperature                    | 50.0 - 80.0   | °C      |             |
| Injection Rate                      | Moderate-Fast |         |             |
| Injection instructions              |               |         |             |
| Processing Temperature Limit: 310°C |               |         |             |
| NOTE                                |               |         |             |
| 1.                                  | 10 mm/min     |         |             |
| 2.                                  | 2.0 mm/min    |         |             |
| 3.                                  | 2.0 mm/min    |         |             |

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#### Recommended distributors for this material

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