

# Kingfa JH830

Polycarbonate Alloy

Kingfa

## Message:

Kingfa JH830 is a polycarbonate alloy (PC alloy) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa JH830 are:

flame retardant/rated flame

High stiffness

beautiful

Typical application areas include:

electrical appliances

Wire and cable

home apps

| General Information                     |                         |                   |             |
|-----------------------------------------|-------------------------|-------------------|-------------|
| UL YellowCard                           | E171666-225745          |                   |             |
| Features                                | Rigidity, high          |                   |             |
|                                         | Excellent appearance    |                   |             |
| Uses                                    | Electrical appliances   |                   |             |
|                                         | Household goods         |                   |             |
|                                         | Communication Equipment |                   |             |
| Forms                                   | Particle                |                   |             |
| Processing Method                       | Injection molding       |                   |             |
| Physical                                | Nominal Value           | Unit              | Test Method |
| Specific Gravity                        | 1.21                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (23°C)         | 0.50 - 0.70             | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)          | 0.15                    | %                 | 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>           | 60.0                    | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break) | 60                      | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>           | 2380                    | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>          | 85.0                    | MPa               | ASTM D790   |
| Impact                                  | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)     | 600                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C, 3.20 mm)   | No Break                |                   | ASTM D256   |
| Thermal                                 | Nominal Value           | Unit              | Test Method |
| Deflection Temperature Under Load       |                         |                   | ASTM D648   |
| 0.45 MPa, unannealed, 6.40mm            | 136                     | °C                | ASTM D648   |

| 1.8 MPa, unannealed, 6.40mm                                   | 125           | °C      | ASTM D648      |
|---------------------------------------------------------------|---------------|---------|----------------|
| Electrical                                                    | Nominal Value | Unit    | Test Method    |
| Surface Resistivity                                           | 1.0E+15       | ohms    | ASTM D257      |
| Volume Resistivity                                            | 1.0E+16       | ohms·cm | ASTM D257      |
| Dielectric Strength (1.60 mm)                                 | 28            | kV/mm   | ASTM D149      |
| Flammability                                                  | Nominal Value | Unit    | Test Method    |
| Flame Rating                                                  |               |         | UL 94          |
| 1.60 mm                                                       | V-0           |         | UL 94          |
| 3.20 mm                                                       | V-0           |         | UL 94          |
| Glow Wire Ignition Temperature (1.60 mm)                      | 950           | °C      | IEC 60695-2-13 |
| Additional Information                                        |               |         |                |
| Ball Pressure Test, IEC695-10-2, 2mm: 123 to 127°C            |               |         |                |
| Injection                                                     | Nominal Value | Unit    |                |
| Drying Temperature                                            | 100 - 115     | °C      |                |
| Drying Time                                                   | 3.0 - 6.0     | hr      |                |
| Rear Temperature                                              | 230 - 260     | °C      |                |
| Middle Temperature                                            | 230 - 270     | °C      |                |
| Front Temperature                                             | 235 - 275     | °C      |                |
| Processing (Melt) Temp                                        | 230 - 260     | °C      |                |
| Mold Temperature                                              | 60.0 - 80.0   | °C      |                |
| Back Pressure                                                 | 0.300 - 1.00  | MPa     |                |
| Injection instructions                                        |               |         |                |
| Processing Temperature Limit: 280°CInjection Speed: 60 to 90% |               |         |                |
| NOTE                                                          |               |         |                |
| 1.                                                            | 50 mm/min     |         |                |
| 2.                                                            | 50 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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