

## Kingfa JH710 G15 Flame Retardant & 15% Glass Fiber Reinforced PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

### Material Notes:

Features: Environmental friendly flame retardant UL V-0 @ 1.6mm High mechanical strength Good size stability, good surface Suitable for exact molding Applications: CD-ROM, DVD Printer, photocopier cabinet Scanner parts Exact mechanism parts Electrical equipment parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-JH710-G15-Flame-Retardant-15-Glass-Fiber-Reinforced-PC.php](http://www.lookpolymers.com/polymer_Kingfa-JH710-G15-Flame-Retardant-15-Glass-Fiber-Reinforced-PC.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.31 g/cc             | 1.31 g/cc             | ASTM D792 |
|                       | @Temperature 23.0 Å°C | @Temperature 73.4 Å°F |           |
| Linear Mold Shrinkage | 0.0030 - 0.0040 cm/cm | 0.0030 - 0.0040 in/in | ASTM D955 |
|                       | @Temperature 23.0 Å°C | @Temperature 73.4 Å°F |           |

| Mechanical Properties     | Metric                                    | English                                    | Comments            |
|---------------------------|-------------------------------------------|--------------------------------------------|---------------------|
| Hardness, Rockwell M      | 84                                        | 84                                         | ASTM D785           |
| Tensile Strength at Break | 90.0 MPa                                  | 13100 psi                                  | 10mm/min; ASTM D638 |
| Elongation at Break       | 7.0 %                                     | 7.0 %                                      | 10mm/min; ASTM D638 |
| Flexural Strength         | 138 MPa                                   | 20000 psi                                  | 2mm/min; ASTM D790  |
| Flexural Modulus          | 5.50 GPa                                  | 798 ksi                                    | 2mm/min; ASTM D790  |
| Izod Impact, Notched      | 0.920 J/cm                                | 1.72 ft-lb/in                              | ASTM D256           |
|                           | @Thickness 3.20 mm, Temperature -30.0 Å°C | @Thickness 0.126 in, Temperature -22.0 Å°F |                     |
|                           | 1.09 J/cm                                 | 2.04 ft-lb/in                              | ASTM D256           |
|                           | @Thickness 3.20 mm, Temperature 23.0 Å°C  | @Thickness 0.126 in, Temperature 73.4 Å°F  |                     |

| Thermal Properties                          | Metric             | English             | Comments  |
|---------------------------------------------|--------------------|---------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 144 Å°C            | 291 Å°F             | ASTM D648 |
|                                             | @Thickness 6.40 mm | @Thickness 0.252 in |           |
| Deflection Temperature at 1.8 MPa (264 psi) | 132 Å°C            | 270 Å°F             | ASTM D648 |
|                                             | @Thickness 6.40 mm | @Thickness 0.252 in |           |

| Thermal Properties | V-0<br>Metric      | V-0<br>English       | Comments |
|--------------------|--------------------|----------------------|----------|
|                    | @Thickness 1.60 mm | @Thickness 0.0630 in |          |
|                    | V-0                | V-0                  |          |
|                    | @Thickness 3.00 mm | @Thickness 0.118 in  |          |

| Electrical Properties | Metric          | English         | Comments         |
|-----------------------|-----------------|-----------------|------------------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257        |
| Surface Resistance    | 1.00e+16 ohm    | 1.00e+16 ohm    | ASTM D257        |
| Dielectric Strength   | 19.0 kV/mm      | 483 kV/in       | 1.6mm; ASTM D149 |

| Processing Properties     | Metric                                   | English                                 | Comments            |
|---------------------------|------------------------------------------|-----------------------------------------|---------------------|
| Processing Temperature    | <= 290 Â°C                               | <= 554 Â°F                              |                     |
| Rear Barrel Temperature   | 230 - 250 Â°C                            | 446 - 482 Â°F                           | Start Point: 240Â°C |
| Middle Barrel Temperature | 235 - 260 Â°C                            | 455 - 500 Â°F                           | Start Point: 245Â°C |
| Front Barrel Temperature  | 240 - 270 Â°C                            | 464 - 518 Â°F                           | Start Point: 250Â°C |
| Melt Temperature          | 235 - 260 Â°C                            | 455 - 500 Â°F                           | Start Point: 240Â°C |
| Mold Temperature          | 80.0 - 130 Â°C                           | 176 - 266 Â°F                           | Start Point: 90Â°C  |
| Drying Temperature        | 110 - 120 Â°C<br>@Time 10800 - 14400 sec | 230 - 248 Â°F<br>@Time 3.00 - 4.00 hour | Pre-dry             |
| Back Pressure             | 0.300 - 1.00 MPa                         | 43.5 - 145 psi                          |                     |

| Descriptive Properties  | Value  | Comments |
|-------------------------|--------|----------|
| Glass Fiber Content (%) | 15     |          |
| Injection Speed         | 60-90% |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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