

## Kingfa PBT-RG002 Flame Retardant PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

### Material Notes:

Features: Flame retardant Good chemical resistance Outstanding surface Easy processing High impact Applications: Injection molding Connectors, terminal blocks Relay, switch Bobbins Plugs E & E parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-PBT-RG002-Flame-Retardant-PBT.php](http://www.lookpolymers.com/polymer_Kingfa-PBT-RG002-Flame-Retardant-PBT.php)

| Physical Properties   | Metric   | English  | Comments  |
|-----------------------|--|--|-----------|
| Specific Gravity      | 1.32 g/cc<br>@Temperature 23.0<br>Â°C                  | 1.32 g/cc<br>@Temperature 73.4 Â°F                     | ASTM D792 |
| Water Absorption      | 0.040 %<br>@Temperature 23.0<br>Â°C,<br>Time 86400 sec | 0.040 %<br>@Temperature 73.4<br>Â°F,<br>Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage | 0.011 - 0.016 cm/cm<br>@Temperature 23.0<br>Â°C        | 0.011 - 0.016 in/in<br>@Temperature 73.4 Â°F           | ASTM D955 |

| Mechanical Properties     | Metric   | English   | Comments            |
|---------------------------|--|---|---------------------|
| Hardness, Rockwell R      | 116  | 116   | ASTM D785           |
| Tensile Strength at Break | 48.0 MPa   | 6960 psi  | 10mm/min; ASTM D638 |
| Flexural Strength         | 70.0 MPa   | 10200 psi   | 2mm/min; ASTM D790  |
| Flexural Modulus          | 2.00 GPa   | 290 ksi   | 2mm/min; ASTM D790  |
| Izod Impact, Notched      | 5.10 J/cm<br>@Thickness 3.20 mm,<br>Temperature 23.0 Â°C | 9.55 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature 73.4 Â°F | ASTM D256           |

| Thermal Properties                             | Metric                         | English                        | Comments  |
|--|--------------------------------|--------------------------------|-----------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 108 Â°C<br>@Thickness 6.40 mm  | 226 Â°F<br>@Thickness 0.252 in | ASTM D648 |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 81.0 Â°C<br>@Thickness 6.40 mm | 178 Â°F<br>@Thickness 0.252 in | ASTM D648 |
| Flammability, UL94                             | V-0<br>@Thickness 0.700 mm     | V-0<br>@Thickness 0.0276 in    |           |

| Thermal Properties | Metric             | English             | Comments |
|--------------------|--------------------|---------------------|----------|
|                    | @Thickness 3.20 mm | @Thickness 0.126 in |          |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

| Processing Properties     | Metric                                      | English                                 | Comments            |
|---------------------------|---|---|---------------------|
| Processing Temperature    | <= 265 Â°C                                  | <= 509 Â°F                              |                     |
| Rear Barrel Temperature   | 220 - 240 Â°C                               | 428 - 464 Â°F                           | Start Point: 235Â°C |
| Middle Barrel Temperature | 230 - 255 Â°C                               | 446 - 491 Â°F                           | Start Point: 245Â°C |
| Front Barrel Temperature  | 240 - 260 Â°C                               | 464 - 500 Â°F                           | Start Point: 255Â°C |
| Melt Temperature          | 240 - 260 Â°C                               | 464 - 500 Â°F                           | Start Point: 250Â°C |
| Mold Temperature          | 50.0 - 80.0 Â°C                             | 122 - 176 Â°F                           | Start Point: 60Â°C  |
| Drying Temperature        | 120 - 140 Â°C<br>@Time 14400 - 21600<br>sec | 248 - 284 Â°F<br>@Time 4.00 - 6.00 hour | Pre-dry             |

| Descriptive Properties | Value            | Comments |
|------------------------|------------------|----------|
| Injection Speed        | Moderate to High |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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