

## Chang Chun Plastic PBT3030 30% Glass Fiber Enforced PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

### Material Notes:

Information provided by Dowell Trading Company Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chang-Chun-Plastic-PBT3030-30-Glass-Fiber-Enforced-PBT.php](http://www.lookpolymers.com/polymer_Chang-Chun-Plastic-PBT3030-30-Glass-Fiber-Enforced-PBT.php)

| Physical Properties   | Metric               | English                            | Comments                     |
|-----------------------|----------------------|------------------------------------|------------------------------|
| Density               | 1.52 - 1.54 g/cc     | 0.0549 - 0.0556 lb/in <sup>3</sup> | ASTM D792                    |
| Water Absorption      | 0.040 %              | 0.040 %                            | 24 hour immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.014 cm/cm | 0.0020 - 0.014 in/in               | ASTM D955                    |

| Mechanical Properties      | Metric                                  | English                                     | Comments  |
|----------------------------|---|---|-----------|
| Hardness, Rockwell M       | 94                                      | 94  | ASTM D785 |
| Tensile Strength, Ultimate | 110 - 140 MPa                           | 16000 - 20300 psi                           | ASTM D638 |
| Elongation at Break        | 4.0 - 5.0 %                             | 4.0 - 5.0 %                                 | ASTM D638 |
| Flexural Yield Strength    | 180 - 200 MPa                           | 26100 - 29000 psi                           | ASTM D790 |
| Flexural Modulus           | 7.00 - 10.0 GPa                         | 1020 - 1450 ksi                             | ASTM D790 |
| Izod Impact, Notched       | 0.800 - 1.30 J/cm<br>@Thickness 6.35 mm | 1.50 - 2.44 ft-lb/in<br>@Thickness 0.250 in | ASTM D256 |

| Thermal Properties                          | Metric   | English  | Comments  |
|---|--|--|-----------|
| CTE, linear                                 | 30.0 $\mu\text{m}/\text{m}\cdot\text{C}$<br>@Temperature 20.0 $^{\circ}\text{C}$ | 16.7 $\mu\text{in}/\text{in}\cdot\text{F}$<br>@Temperature 68.0 $^{\circ}\text{F}$ | ASTM D696 |
| Melting Point                               | 225 $^{\circ}\text{C}$   | 437 $^{\circ}\text{F}$   | DSC       |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 $^{\circ}\text{C}$   | 428 $^{\circ}\text{F}$   | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 212 $^{\circ}\text{C}$   | 414 $^{\circ}\text{F}$   | ASTM D648 |
| Flammability, UL94                          | HB   | HB   | 1/32 in.  |

| Electrical Properties  | Metric                        | English                       | Comments  |
|------------------------|-------------------------------|-------------------------------|-----------|
| Electrical Resistivity | $\geq 1.00\text{e}+16$ ohm-cm | $\geq 1.00\text{e}+16$ ohm-cm | ASTM D257 |

| Surface Resistance<br>Electrical Properties | $\geq 1.00e+14$ ohm<br>Metric    | $\geq 1.00e+14$ ohm<br>English    | ASTM D257<br>Comments |
|---|----------------------------------|-----------------------------------|-----------------------|
| Dielectric Constant                         | 3.7<br>@Frequency 60 Hz          | 3.7<br>@Frequency 60 Hz           | ASTM D150             |
| Dielectric Strength                         | 23.0 kV/mm<br>@Thickness 2.00 mm | 584 kV/in<br>@Thickness 0.0787 in | ASTM D149             |
| Dissipation Factor                          | 0.0010<br>@Frequency 60 Hz       | 0.0010<br>@Frequency 60 Hz        | ASTM D150             |
| Arc Resistance                              | 130 sec                          | 130 sec                           | ASTM D495             |

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