

## LG Chemical Lupox® PBT-LW5303F 30% Glass Filled Low Warp Flame Retardant PBT

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

### Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-Lupox-PBT-LW5303F-30-Glass-Filled-Low-Warp-Flame-Retardant-PBT.php](http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-PBT-LW5303F-30-Glass-Filled-Low-Warp-Flame-Retardant-PBT.php)

| Physical Properties   | Metric                | English                   | Comments                    |
|-----------------------|-----------------------|---------------------------|-----------------------------|
| Density               | 1.55 g/cc             | 0.0560 lb/in <sup>3</sup> | ASTM D792                   |
| Water Absorption      | 0.060 %               | 0.060 %                   | 24 hours at 73°F; ASTM D570 |
| Linear Mold Shrinkage | 0.0030 - 0.0090 cm/cm | 0.0030 - 0.0090 in/in     | ASTM D955                   |

| Mechanical Properties   | Metric     | English       | Comments  |
|-------------------------|------------|---------------|-----------|
| Hardness, Rockwell R    | 91         | 91            | ASTM D785 |
| Tensile Strength, Yield | 117 MPa    | 17000 psi     | ASTM D638 |
| Elongation at Break     | 4.5 %      | 4.5 %         | ASTM D638 |
| Flexural Yield Strength | 177 MPa    | 25600 psi     | ASTM D570 |
| Flexural Modulus        | 7.350 GPa  | 1066 ksi      | ASTM D570 |
| Izod Impact, Notched    | 0.801 J/cm | 1.50 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric                      | English                      | Comments  |
|---------------------------------------------|-----------------------------|------------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 200 °C                      | 392 °F                       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 190 °C                      | 374 °F                       | ASTM D648 |
| Flammability, UL94                          | V-0<br>@Thickness 0.7937 mm | V-0<br>@Thickness 0.03125 in | UL94      |

| Electrical Properties | Metric | English | Comments  |
|-----------------------|--------|---------|-----------|
| Arc Resistance        | 80 sec | 80 sec  | ASTM D495 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Rear Barrel Temperature<br>Processing Properties | 230 - 245 Â°C<br>Metric | 446 - 473 Â°F<br>English | Comments |
|--------------------------------------------------|-------------------------|--------------------------|----------|
| Middle Barrel Temperature                        | 235 - 250 Â°C           | 455 - 482 Â°F            |          |
| Front Barrel Temperature                         | 240 - 250 Â°C           | 464 - 482 Â°F            |          |
| Nozzle Temperature                               | 240 - 260 Â°C           | 464 - 500 Â°F            |          |
| Melt Temperature                                 | 240 - 260 Â°C           | 464 - 500 Â°F            |          |
| Mold Temperature                                 | 50.0 - 100 Â°C          | 122 - 212 Â°F            | Surface  |
| Drying Temperature                               | 120 Â°C                 | 248 Â°F                  | 5 hr.    |
|                                                  | 140 Â°C                 | 284 Â°F                  | 3 hr.    |
|                                                  | 120 Â°C                 | 248 Â°F                  |          |
|                                                  | @Time 18000 sec         | @Time 5.00 hour          |          |
|                                                  | 140 Â°C                 | 284 Â°F                  |          |
|                                                  | @Time 10800 sec         | @Time 3.00 hour          |          |
| Back Pressure                                    | 0.172 - 0.345 MPa       | 25.0 - 50.0 psi          |          |
| Shot Size                                        | 40 - 80 %               | 40 - 80 %                |          |
| Vent Depth                                       | 0.00254 - 0.00381 cm    | 0.00100 - 0.00150 in     |          |

| Descriptive Properties | Value          | Comments |
|------------------------|----------------|----------|
| Ram Speed Setting      | Medium to Fast |          |
| Screw Speed            | Medium         |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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