

## LTL Color Compounds ColorFast® PCGF130 Polycarbonate, 30% Glass-Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

### Material Notes:

30% glass-filled grade polycarbonate All information provided by LTL Color Compounds, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LTL-Color-Compounds-ColorFast-PCGF130-Polycarbonate-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-PCGF130-Polycarbonate-30-Glass-Filled.php)

| Physical Properties   | Metric                                                | English                                               | Comments         |
|-----------------------|-------------------------------------------------------|-------------------------------------------------------|------------------|
| Specific Gravity      | 1.43 g/cc                                             | 1.43 g/cc                                             | ASTM D792        |
| Linear Mold Shrinkage | 0.0010 - 0.0030 cm/cm                                 | 0.0010 - 0.0030 in/in                                 | 0.125; ASTM D955 |
| Melt Flow             | 5.0 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 Â°C | 5.0 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 Â°F | ASTM D1238       |

| Mechanical Properties   | Metric                                | English                                | Comments              |
|-------------------------|---------------------------------------|----------------------------------------|-----------------------|
| Hardness, Rockwell M    | 92                                    | 92                                     | ASTM D785             |
| Tensile Strength, Yield | 100 MPa                               | 14500 psi                              | 2.0 in/min; ASTM D638 |
| Elongation at Break     | 2.0 %                                 | 2.0 %                                  | 2.0 in/min; ASTM D638 |
| Flexural Strength       | 152 MPa                               | 22000 psi                              | 2.0 in/min; ASTM D790 |
| Flexural Modulus        | 6.62 GPa                              | 960 ksi                                | 2.0 in/min; ASTM D790 |
| Izod Impact, Notched    | 1.07 J/cm<br>@Temperature 22.8<br>Â°C | 2.00 ft-lb/in<br>@Temperature 73.0 Â°F | ASTM D256             |

| Thermal Properties                             | Metric  | English | Comments                       |
|------------------------------------------------|---------|---------|--------------------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 146 Â°C | 295 Â°F | Unannealed (0.250"); ASTM D648 |

| Processing Properties     | Metric        | English       | Comments |
|---------------------------|---------------|---------------|----------|
| Rear Barrel Temperature   | 293 - 316 Â°C | 560 - 600 Â°F |          |
| Middle Barrel Temperature | 304 - 327 Â°C | 580 - 620 Â°F |          |
| Front Barrel Temperature  | 316 - 338 Â°C | 600 - 640 Â°F |          |
| Nozzle Temperature        | 310 - 332 Â°C | 590 - 630 Â°F |          |
| Melt Temperature          | 316 - 338 Â°C | 600 - 640 Â°F |          |

| Processing Properties | Metric16 Â°C         | English10 Â°F        | Comments                                 |
|-----------------------|----------------------|----------------------|------------------------------------------|
| Drying Temperature    | 121 Â°C              | 250 Â°F              |                                          |
| Dry Time              | 3 - 4 hour           | 3 - 4 hour           | nominal; maximum drying time of 48 hours |
| Back Pressure         | 0.345 - 0.689 MPa    | 50.0 - 100 psi       |                                          |
| Shot Size             | 40 - 60 %            | 40 - 60 %            |                                          |
| Vent Depth            | 0.00254 - 0.00762 cm | 0.00100 - 0.00300 in |                                          |
| Screw Speed           | 40 - 70 rpm          | 40 - 70 rpm          |                                          |

## Contact Songhan Plastic Technology Co.,Ltd.

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