

## Polymer Resources PC-G10-IM Polycarbonate, 10% Glass Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled , Polycarbonate, Impact Modified

### Material Notes:

Polycarbonate, 10% Glass Reinforced, Impact Modified Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-PC-G10-IM-Polycarbonate-10-Glass-Reinforced-Impact-Modified.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PC-G10-IM-Polycarbonate-10-Glass-Reinforced-Impact-Modified.php)

| Physical Properties   | Metric                                                    | English                                                   | Comments   |
|-----------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------|
| Specific Gravity      | 1.24 g/cc                                                 | 1.24 g/cc                                                 | ASTM D792  |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm                                     | 0.0030 - 0.0060 in/in                                     | ASTM D955  |
| Melt Flow             | 5.0 - 12 g/10 min<br>@Load 1.20 kg,<br>Temperature 300 °C | 5.0 - 12 g/10 min<br>@Load 2.65 lb,<br>Temperature 572 °F | ASTM D1238 |

| Mechanical Properties     | Metric                            | English                               | Comments  |
|---------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength at Break | 56.5 MPa                          | 8200 psi                              | ASTM D638 |
| Tensile Strength, Yield   | 56.5 MPa                          | 8200 psi                              | ASTM D638 |
| Flexural Strength         | 93.8 MPa                          | 13600 psi                             | ASTM D790 |
| Flexural Modulus          | 2.76 GPa                          | 400 ksi                               | ASTM D790 |
| Izod Impact, Notched      | 2.14 J/cm<br>@Temperature 22.8 °C | 4.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 138 °C | 280 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 132 °C | 270 °F  | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 293 - 316 °C | 560 - 600 °F |          |
| Middle Barrel Temperature | 304 - 327 °C | 580 - 620 °F |          |
| Front Barrel Temperature  | 316 - 338 °C | 600 - 640 °F |          |
| Melt Temperature          | 302 - 329 °C | 575 - 625 °F |          |

| Processing Properties | Metric           | English          | Comments |
|-----------------------|------------------|------------------|----------|
| Mold Temperature      | 82.2 - 116 °C    | 180 - 240 °F     |          |
| Drying Temperature    | 118 - 124 °C     | 245 - 255 °F     |          |
| Dry Time              | 3.00 - 4.00 hour | 3.00 - 4.00 hour |          |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Vent                   | 0.0005 |          |

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China