

## Diamond Polymers DIAMALLOY 801 Polycarbonate/Polyester Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-DIAMALLOY-801-PolycarbonatePolyester-Alloy.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-801-PolycarbonatePolyester-Alloy.php)

| Physical Properties   | Metric  | English   | Comments   |
|-----------------------|---|---|------------|
| Specific Gravity      | 1.18 g/cc   | 1.18 g/cc   | ASTM D792  |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm                                 | 0.0040 - 0.0080 in/in                                 | ASTM D955  |
| Melt Flow             | 11.5 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 °C | 11.5 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric                           | English                               | Comments                   |
|-------------------------|----------------------------------|---------------------------------------|----------------------------|
| Tensile Strength, Yield | 58.2 MPa                         | 8440 psi                              | chs 2.0 in/min; ASTM D638  |
| Elongation at Yield     | 4.5 %                            | 4.5 %                                 | chs 2.0 in/min; ASTM D638  |
| Flexural Modulus        | 2.274 GPa                        | 329.8 ksi                             | chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched    | 7.102 J/cm<br>@Thickness 3.17 mm | 13.30 ft-lb/in<br>@Thickness 0.125 in | ASTM D256                  |

| Thermal Properties    | Metric  | English  | Comments   |
|-----------------------|---|--|------------|
| Vicat Softening Point | 119 °C<br>@Load 1.00 kg,<br>Thickness 3.17 mm | 246 °F<br>@Load 2.20 lb,<br>Thickness 0.125 in | ASTM D1527 |

## Contact Songhan Plastic Technology Co.,Ltd.

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