

## Diamond Polymers DIAMALLOY PC 1113 Impact Modified Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

**Material Notes:**

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-DIAMALLOY-PC-1113-Impact-Modified-Polycarbonate.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-PC-1113-Impact-Modified-Polycarbonate.php)

| Physical Properties   | Metric                                              | English                                             | Comments   |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|------------|
| Specific Gravity      | 1.18 g/cc                                           | 1.18 g/cc                                           | ASTM D792  |
| Linear Mold Shrinkage | 0.0060 - 0.0080 cm/cm                               | 0.0060 - 0.0080 in/in                               | ASTM D955  |
| Melt Flow             | 11 g/10 min<br>@Load 3.80 kg,<br>Temperature 300 °C | 11 g/10 min<br>@Load 8.38 lb,<br>Temperature 572 °F | ASTM D1238 |

| Mechanical Properties   | Metric                                                   | English                                                       | Comments                 |
|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Tensile Strength, Yield | 56.0 MPa                                                 | 8120 psi                                                      | chs 50 mm/min; ASTM D638 |
| Elongation at Break     | 130 %                                                    | 130 %                                                         | chs 50 mm/min; ASTM D638 |
| Flexural Strength       | 90.0 MPa                                                 | 13100 psi                                                     | chs 2 mm/min; ASTM D790  |
| Flexural Modulus        | 2.27 GPa                                                 | 329 ksi                                                       | chs 2 mm/min; ASTM D790  |
| Izod Impact, Notched    | 5.34 J/cm<br>@Thickness 3.17 mm,<br>Temperature -30.0 °C | 10.0 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature -22.0 °F | ASTM D256                |
|                         | 6.94 J/cm<br>@Thickness 3.17 mm,<br>Temperature 23.0 °C  | 13.0 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature 73.4 °F  | ASTM D256                |
| Dart Drop, Total Energy | 57.0 J                                                   | 42.0 ft-lb                                                    | Peak Energy; ASTM D3763  |

| Thermal Properties    | Metric                                        | English                                        | Comments   |
|-----------------------|-----------------------------------------------|------------------------------------------------|------------|
| Vicat Softening Point | 146 °C<br>@Load 5.00 kg,<br>Thickness 3.17 mm | 295 °F<br>@Load 11.0 lb,<br>Thickness 0.125 in | ASTM D1525 |
| Flammability, UL94    | HB<br>@Thickness 1.59 mm                      | HB<br>@Thickness 0.0625 in                     |            |
|                       | HB                                            | HB                                             |            |

| Thermal Properties | @Thickness 3.17 mm<br>Metric | @Thickness 0.125 in<br>English | Comments |
|--------------------|------------------------------|--------------------------------|----------|
|--------------------|------------------------------|--------------------------------|----------|

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