

## Diamond Polymers DIAMALLOY 750 HF PLATABLE ABS/PC Alloy, Platable Non-Halogen, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### 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-750-HF-PLATABLE-ABSPC-Alloy-Platable-Non-Halogen-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-750-HF-PLATABLE-ABSPC-Alloy-Platable-Non-Halogen-Flame-Retardant.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             | 25.6 g/10 min                        | 25.6 g/10 min                        | ASTM D1238 |
|                       | @Load 5.00 kg,<br>Temperature 200 °C | @Load 11.0 lb,<br>Temperature 392 °F |            |
|                       | 26.9 g/10 min                        | 26.9 g/10 min                        | ASTM D1238 |
|                       | @Load 3.80 kg,<br>Temperature 230 °C | @Load 8.38 lb,<br>Temperature 446 °F |            |

| Mechanical Properties   | Metric             | English             | Comments                   |
|-------------------------|--------------------|---------------------|----------------------------|
| Tensile Strength, Yield | 60.0 MPa           | 8700 psi            | chs 2.0 in/min; ASTM D638  |
| Elongation at Yield     | 2.5 %              | 2.5 %               | chs 2.0 in/min; ASTM D638  |
| Flexural Modulus        | 2.653 GPa          | 384.8 ksi           | chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched    | 5.34 J/cm          | 10.0 ft-lb/in       | ASTM D256                  |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |                            |

| Thermal Properties    | Metric                              | English                              | Comments   |
|-----------------------|-------------------------------------|--------------------------------------|------------|
| Vicat Softening Point | 105 °C                              | 221 °F                               | ASTM D1527 |
|                       | @Load 1.00 kg,<br>Thickness 3.17 mm | @Load 2.20 lb,<br>Thickness 0.125 in |            |
| Flammability, UL94    | V-0                                 | V-0                                  |            |
|                       | @Thickness 1.59 mm                  | @Thickness 0.0625 in                 |            |
|                       | V-0                                 | V-0                                  |            |
|                       | @Thickness 3.17 mm                  | @Thickness 0.125 in                  |            |
|                       | 5VB                                 | 5VB                                  |            |

Thermal Properties

Metric

@ Thickness 20.1 mm

English

@ Thickness 0.790 in

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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