

## Diamond Polymers ASA S210B

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

### Material Notes:

Description: ASA Weatherable Polymer, Injection Molding Grade, Medium Modulus Information provided by Diamond Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-ASA-S210B.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-ASA-S210B.php)

| Physical Properties   | Metric                               | English                              | Comments                            |
|-----------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| Specific Gravity      | 1.07 g/cc                            | 1.07 g/cc                            | ASTM D792                           |
| Linear Mold Shrinkage | 0.0040 - 0.0080 cm/cm                | 0.0040 - 0.0080 in/in                | ASTM D955                           |
| Melt Flow             | 1.8 g/10 min                         | 1.8 g/10 min                         | Procedure A Condition G; ASTM D1238 |
|                       | @Load 5.00 kg,<br>Temperature 200 °C | @Load 11.0 lb,<br>Temperature 392 °F |                                     |
|                       | 5.4 g/10 min                         | 5.4 g/10 min                         | Procedure A Condition I; 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 | 45.87 MPa                                  | 6653 psi                                    | chs 2 in/min; ASTM D638             |
| Flexural Modulus        | 2.34 GPa                                   | 339 ksi                                     | Tangent, chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched    | 1.01 J/cm                                  | 1.90 ft-lb/in                               | bar; ASTM D256                      |
|                         | @Thickness 3.17 mm,<br>Temperature 23.0 °C | @Thickness 0.125 in,<br>Temperature 73.4 °F |                                     |

| Thermal Properties                          | Metric  | English | Comments                                                        |
|---------------------------------------------|---------|---------|-----------------------------------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 78.9 °C | 174 °F  | 0.125 in bar Unannealed/Conditioned 40 hours at 23°C; ASTM D648 |
| Vicat Softening Point                       | 105 °C  | 221 °F  | 0.125 inch, 1 Kg; ASTM D1525                                    |

## Contact Songhan Plastic Technology Co.,Ltd.

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