

## Diamond Polymers SAN 300 Styrene Acrylonitrile, Transparent Engineering Thermoplastic

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Transparent

### 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-SAN-300-Styrene-Acrylonitrile-Transparent-Engineering-Thermoplastic.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-SAN-300-Styrene-Acrylonitrile-Transparent-Engineering-Thermoplastic.php)

| Physical Properties   | Metric                               | English                              | Comments   |
|-----------------------|--------------------------------------|--------------------------------------|------------|
| Specific Gravity      | 1.07 g/cc                            | 1.07 g/cc                            | ASTM D792  |
| Linear Mold Shrinkage | 0.0030 - 0.0070 cm/cm                | 0.0030 - 0.0070 in/in                | ASTM D955  |
| Melt Flow             | 8.0 g/10 min                         | 8.0 g/10 min                         | ASTM D1238 |
|                       | @Load 5.00 kg,<br>Temperature 200 °C | @Load 11.0 lb,<br>Temperature 392 °F |            |
|                       | 31.1 g/10 min                        | 31.1 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                            |
|-------------------------|--|---|-------------------------------------|
| Hardness, Rockwell R    | 123  | 123   | ASTM D785                           |
| Tensile Strength, Yield | 59.3 MPa                                   | 8600 psi                                    | chs 2.0 in/min; ASTM D638           |
| Flexural Modulus        | 3.17 GPa                                   | 460 ksi                                     | chs 0.05 in/min; tangent; ASTM D790 |
| Izod Impact, Notched    | 0.214 J/cm                                 | 0.401 ft-lb/in                              | 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   |
|-----------------------|-------------------------------------|--------------------------------------|------------|
| Vicat Softening Point | 100 °C                              | 212 °F                               | ASTM D1525 |
|                       | @Load 1.00 kg,<br>Thickness 3.17 mm | @Load 2.20 lb,<br>Thickness 0.125 in |            |
| Flammability, UL94    | HB                                  | HB                                   |            |
|                       | @Thickness 1.59 mm                  | @Thickness 0.0625 in                 |            |

| Optical Properties    | Metric | English | Comments                              |
|-----------------------|--------|---------|---------------------------------------|
| Transmission, Visible | 90 %   | 90 %    | transparent; thickness not quantified |

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

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