

## Network Polymers SAN 300 Natural

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

### Material Notes:

Description: SAN - Styrene Acrylonitrile Transparent Engineering Thermoplastic Information provided by Network Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Network-Polymers-SAN-300-Natural.php](http://www.lookpolymers.com/polymer_Network-Polymers-SAN-300-Natural.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                         | Procedure A Condition G; 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                        | 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                            |
|-------------------------|------------|----------------|-------------------------------------|
| Hardness, Rockwell R    | 123        | 123            | ASTM D785                           |
| Tensile Strength, Yield | 59.3 MPa   | 8600 psi       | chs 2 in/min; ASTM D638             |
| Flexural Modulus        | 3.17 GPa   | 460 ksi        | Tangent, chs 0.05 in/min; ASTM D790 |
| Izod Impact, Notched    | 0.214 J/cm | 0.400 ft-lb/in | 0.125 inch bar; ASTM D256           |

| Thermal Properties                          | Metric  | English | Comments                                           |
|---------------------------------------------|---------|---------|----------------------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 96.7 °C | 206 °F  | Unannealed/Conditioned 48 hours at 23°C; ASTM D648 |
| Vicat Softening Point                       | 100 °C  | 212 °F  | 0.125 inch bar, 1 Kg; ASTM D1525                   |
| Flammability, UL94                          | HB      | HB      | 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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