

## Ashley Polymers Ashlene® 981S Nylon 612

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Unreinforced

### Material Notes:

A general purpose heat stabilized 612 Nylon for extrusion. These resins are noted for their low moisture absorption and excellent dimensional stability.Data provided by the manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ashley-Polymers-Ashlene-981S-Nylon-612.php](http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-981S-Nylon-612.php)

| Physical Properties            | Metric      | English       | Comments          |
|--------------------------------|-------------|---------------|-------------------|
| Density                        | 1.06 g/cc   | 0.0383 lb/in³ | ASTM D792         |
| Water Absorption               | 0.37 %      | 0.37 %        | 24 hrs; ASTM D570 |
| Water Absorption at Saturation | 3.0 %       | 3.0 %         | ASTM D570         |
| Linear Mold Shrinkage          | 0.011 cm/cm | 0.011 in/in   | ASTM D955         |

| Mechanical Properties      | Metric     | English       | Comments  |
|----------------------------|------------|---------------|-----------|
| Hardness, Rockwell R       | 115        | 115           | ASTM D785 |
| Tensile Strength, Ultimate | 61.0 MPa   | 8850 psi      | ATSM D638 |
| Elongation at Break        | 90 %       | 90 %          | ASTM D638 |
| Flexural Modulus           | 1.90 GPa   | 276 ksi       | ASTM D790 |
| Izod Impact, Notched       | 0.640 J/cm | 1.20 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Melting Point                               | 213 °C  | 415 °F  | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 164 °C  | 327 °F  | ASTM D648  |
| Deflection Temperature at 1.8 MPa (264 psi) | 95.0 °C | 203 °F  | ASTM D648  |
| Brittleness Temperature                     | -126 °C | -195 °F | ASTM D746  |

| Electrical Properties  | Metric                    | English                   | Comments  |
|------------------------|---------------------------|---------------------------|-----------|
| Electrical Resistivity | 1.00e+14 ohm-cm           | 1.00e+14 ohm-cm           | ASTM D257 |
| Dielectric Constant    | 3.5<br>@Frequency 1e+6 Hz | 3.5<br>@Frequency 1e+6 Hz | ASTM D150 |

| Electrical Properties | 0.020<br>Metric    | 0.020<br>English   | Comments |
|-----------------------|--------------------|--------------------|----------|
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |          |

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