

## Ashley Polymers Ashlene® 527LDS Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

### Material Notes:

A very high impact, slightly lubricated and heat stabilized nylon resin.Data provided by the manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ashley-Polymers-Ashlene-527LDS-Nylon-66.php](http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-527LDS-Nylon-66.php)

| Physical Properties   | Metric       | English       | Comments  |
|-----------------------|--------------|---------------|-----------|
| Density               | 1.07 g/cc    | 0.0387 lb/in³ | ASTM D792 |
| Water Absorption      | 1.3 %        | 1.3 %         | ASTM D570 |
| Linear Mold Shrinkage | 0.0015 cm/cm | 0.0015 in/in  | ASTM D955 |

| Mechanical Properties   | Metric     | English        | Comments  |
|-------------------------|------------|----------------|-----------|
| Hardness, Rockwell R    | 113        | 113            | ASTM D785 |
| Tensile Strength, Yield | 51.0 MPa   | 7400 psi       | ASTM D638 |
| Elongation at Break     | 55 %       | 55 %           | ASTM D638 |
| Flexural Modulus        | 1.70 GPa   | 247 ksi        | ASTM D790 |
| Izod Impact, Notched    | 10.13 J/cm | 18.98 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Melting Point                               | 254 °C  | 489 °F  | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 213 °C  | 415 °F  | ASTM D648  |
| Deflection Temperature at 1.8 MPa (264 psi) | 68.0 °C | 154 °F  | ASTM D648  |

| Electrical Properties  | Metric                    | English                   | Comments  |
|------------------------|---------------------------|---------------------------|-----------|
| Electrical Resistivity | 1.00e+14 ohm-cm           | 1.00e+14 ohm-cm           | ASTM D257 |
| Dielectric Constant    | 2.9<br>@Frequency 1e+6 Hz | 2.9<br>@Frequency 1e+6 Hz | ASTM D150 |
| Dielectric Strength    | 18.0 kV/mm                | 457 kV/in                 | ASTM D149 |

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