

## Ashley Polymers Ashlene® 528L Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

### Material Notes:

General purpose injection molding grade.Data provided by the manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ashley-Polymers-Ashlene-528L-Nylon-66.php](http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-528L-Nylon-66.php)

| Physical Properties   | Metric      | English                   | Comments  |
|-----------------------|-------------|---------------------------|-----------|
| Density               | 1.13 g/cc   | 0.0408 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption      | 1.5 %       | 1.5 %                     | ASTM D570 |
| Linear Mold Shrinkage | 0.015 cm/cm | 0.015 in/in               | ASTM D955 |

| Mechanical Properties      | Metric     | English        | Comments  |
|----------------------------|------------|----------------|-----------|
| Hardness, Rockwell R       | 119        | 119            | ASTM D785 |
| Tensile Strength, Ultimate | 81.0 MPa   | 11700 psi      | ATSM D638 |
| Elongation at Break        | 50 %       | 50 %           | ASTM D638 |
| Elongation at Yield        | 5.0 %      | 5.0 %          | ASTM D638 |
| Tensile Modulus            | 3.032 GPa  | 439.8 ksi      | ASTM D638 |
| Flexural Strength          | 90.0 MPa   | 13100 psi      | ASTM D790 |
| Flexural Modulus           | 2.80 GPa   | 406 ksi        | ASTM D790 |
| Shear Strength             | 65.0 MPa   | 9430 psi       | ASTM D732 |
| Izod Impact, Notched       | 0.530 J/cm | 0.993 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric      | English                            | Comments   |
|---------------------------------------------|-------------|------------------------------------|------------|
| Thermal Conductivity                        | 0.250 W/m-K | 1.74 BTU-in/hr-ft <sup>2</sup> -°F |            |
| Melting Point                               | 255 °C      | 491 °F                             | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 235 °C      | 455 °F                             | ASTM D648  |
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 °C     | 194 °F                             | ASTM D648  |
| Brittleness Temperature                     | -79.0 °C    | -110 °F                            | ASTM D746  |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | Metric             | English            | Comments  |
|-----------------------|--------------------|--------------------|-----------|
| Dielectric Constant   | 3.1                | 3.1                | ASTM D150 |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |           |
| Dielectric Strength   | 25.0 kV/mm         | 635 kV/in          | ASTM D149 |

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