

## Adell AJ-33 Nylon 66, 15% Glass Reinforced; High Impact

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

### Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adell-AJ-33-Nylon-66-15-Glass-Reinforced-High-Impact.php](http://www.lookpolymers.com/polymer_Adell-AJ-33-Nylon-66-15-Glass-Reinforced-High-Impact.php)

| Physical Properties   | Metric       | English                   | Comments                     |
|-----------------------|--------------|---------------------------|------------------------------|
| Density               | 1.20 g/cc    | 0.0434 lb/in <sup>3</sup> | ASTM D792                    |
| Water Absorption      | 0.50 %       | 0.50 %                    | 24 hour immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0075 cm/cm | 0.0075 in/in              | ASTM D955                    |

| Mechanical Properties      | Metric    | English       | Comments  |
|----------------------------|-----------|---------------|-----------|
| Hardness, Rockwell M       | 81        | 81            | ASTM D785 |
| Hardness, Rockwell R       | 118       | 118           | ASTM D785 |
| Tensile Strength, Ultimate | 89.6 MPa  | 13000 psi     | ASTM D638 |
| Elongation at Break        | 3.5 %     | 3.5 %         | ASTM D638 |
| Flexural Strength          | 121 MPa   | 17500 psi     | ASTM D790 |
| Flexural Modulus           | 3.80 GPa  | 551 ksi       | ASTM D790 |
| Compressive Yield Strength | 110 MPa   | 16000 psi     | ASTM D695 |
| Izod Impact, Notched       | 1.30 J/cm | 2.44 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Melting Point                               | 255 °C | 491 °F  | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 227 °C | 441 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 216 °C | 421 °F  | ASTM D648 |
| Flammability, UL94                          | HB     | HB      |           |

## Contact Songhan Plastic Technology Co.,Ltd.

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