

## A. Schulman SCHULAMID® 6 GF33RN 33% Glass Bead Reinforced, Industrial Grade Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead Filled

**Material Notes:**

Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-SCHULAMID-6-GF33RN-33-Glass-Bead-Reinforced-Industrial-Grade-Nylon-6.php](http://www.lookpolymers.com/polymer_A-Schulman-SCHULAMID-6-GF33RN-33-Glass-Bead-Reinforced-Industrial-Grade-Nylon-6.php)

| Physical Properties   | Metric                             | English                             | Comments  |
|-----------------------|------------------------------------|-------------------------------------|-----------|
| Specific Gravity      | 1.37 g/cc                          | 1.37 g/cc                           | ASTM D792 |
| Linear Mold Shrinkage | 0.010 cm/cm<br>@Thickness 3.175 mm | 0.010 in/in<br>@Thickness 0.1250 in | ASTM D955 |

| Mechanical Properties     | Metric     | English       | Comments   |
|---------------------------|------------|---------------|------------|
| Tensile Strength at Break | 147 MPa    | 21300 psi     | ASTM D638  |
| Elongation at Break       | 4.0 %      | 4.0 %         | ASTM D638  |
| Flexural Strength         | 230 MPa    | 33400 psi     | ASTM D790  |
| Flexural Modulus          | 8.4681 GPa | 1228.2 ksi    | ASTM D790  |
| Izod Impact, Notched      | 1.28 J/cm  | 2.40 ft-lb/in | ASTM D256  |
| Izod Impact, Unnotched    | 11.7 J/cm  | 22.0 ft-lb/in | ASTM D4812 |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 218 °C | 424 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 206 °C | 403 °F  | ASTM D648 |

| Processing Properties | Metric         | English      | Comments  |
|-----------------------|----------------|--------------|-----------|
| Melt Temperature      | 270 - 295 °C   | 518 - 563 °F |           |
| Mold Temperature      | 65.6 - 93.3 °C | 150 - 200 °F |           |
| Drying Temperature    | 79.4 °C        | 175 °F       |           |
| Dry Time              | 2 - 4 hour     | 2 - 4 hour   | Predrying |

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