

## A. Schulman ComAlloy Comtuf® 651 Nylon 6, Mineral Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Mineral Reinforced, Impact Grade

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company.35% Mineral Reinforced. Superior toughness and impact resistance characterize Comtuf® materialsThe ComAlloy product line has been integrated into the A Schulman product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-ComAlloy-Comtuf-651-Nylon-6-Mineral-Reinforced-Impact-Modified.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Comtuf-651-Nylon-6-Mineral-Reinforced-Impact-Modified.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.38 g/cc    | 0.0499 lb/in <sup>3</sup> |           |
| Linear Mold Shrinkage | 0.0090 cm/cm | 0.0090 in/in              | ASTM D955 |

| Mechanical Properties      | Metric    | English       | Comments  |
|----------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R       | 116       | 116           | ASTM D785 |
| Tensile Strength, Ultimate | 65.0 MPa  | 9430 psi      | ASTM D638 |
| Elongation at Break        | 20 %      | 20 %          | ASTM D638 |
| Flexural Strength          | 114 MPa   | 16500 psi     | ASTM D790 |
| Flexural Modulus           | 4.30 GPa  | 624 ksi       | ASTM D790 |
| Izod Impact, Notched       | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched     | NB        | NB            | ASTM D256 |

| Thermal Properties                          | Metric       | English      | Comments  |
|---|--------------|--------------|-----------|
| Melting Point                               | 205 - 225 °C | 401 - 437 °F |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 170 °C       | 338 °F       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 °C      | 167 °F       | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 260 - 271 °C | 500 - 520 °F |          |

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