

## A. Schulman ComAlloy Lubrilon® 635 Nylon 6/6, Carbon Fiber/PTFE Filled, Proprietary Lubricant Package

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company. High performance and excellent lubricity with minimal surface wear. The 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-Lubrilon-635-Nylon-66-Carbon-FiberPTFE-Filled-Proprietary-Lubricant-Package.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Lubrilon-635-Nylon-66-Carbon-FiberPTFE-Filled-Proprietary-Lubricant-Package.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.33 g/cc    | 0.0480 lb/in <sup>3</sup> |           |
| Linear Mold Shrinkage | 0.0010 cm/cm | 0.0010 in/in              | ASTM D955 |

| Mechanical Properties      | Metric     | English        | Comments  |
|----------------------------|------------|----------------|-----------|
| Hardness, Rockwell R       | 115        | 115            | ASTM D785 |
| Tensile Strength, Ultimate | 181 MPa    | 26300 psi      | ASTM D638 |
| Elongation at Break        | 4.0 %      | 4.0 %          | ASTM D638 |
| Flexural Strength          | 281 MPa    | 40800 psi      | ASTM D790 |
| Flexural Modulus           | 18.3 GPa   | 2650 ksi       | ASTM D790 |
| Izod Impact, Notched       | 0.530 J/cm | 0.993 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched     | 5.23 J/cm  | 9.80 ft-lb/in  | ASTM D256 |

| Thermal Properties                          | Metric       | English      | Comments  |
|---|--------------|--------------|-----------|
| Melting Point                               | 255 - 275 °C | 491 - 527 °F |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 262 °C       | 504 °F       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 251 °C       | 484 °F       | ASTM D648 |

| Processing Properties  | Metric | English | Comments                               |
|------------------------|--------|---------|--|
| Processing Temperature | 290 °C | 554 °F  | Approximate middle barrel temperature. |

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