

## A. Schulman ComAlloy E-16901B PPS Alloy, Electrically Conductive - Carbon Fiber Filled

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Conductive

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 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-E-16901B-PPS-Alloy-Electrically-Conductive-Carbon-Fiber-Filled.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-E-16901B-PPS-Alloy-Electrically-Conductive-Carbon-Fiber-Filled.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.75 g/cc    | 0.0632 lb/in <sup>3</sup> |           |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in              | ASTM D955 |

| Mechanical Properties      | Metric    | English       | Comments  |
|----------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R       | 120       | 120           | ASTM D785 |
| Tensile Strength, Ultimate | 90.0 MPa  | 13100 psi     | ASTM D638 |
| Elongation at Break        | 2.0 %     | 2.0 %         | ASTM D638 |
| Flexural Yield Strength    | 241 MPa   | 35000 psi     | ASTM D790 |
| Flexural Modulus           | 24.0 GPa  | 3480 ksi      | ASTM D790 |
| Izod Impact, Unnotched     | 1.60 J/cm | 3.00 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric       | English      | Comments  |
|---------------------------------------------|--------------|--------------|-----------|
| Melting Point                               | 280 - 290 °C | 536 - 554 °F |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 °C       | 500 °F       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 252 °C       | 486 °F       | ASTM D648 |

| Electrical Properties  | Metric             | English            | Comments |
|------------------------|--------------------|--------------------|----------|
| Electrical Resistivity | 1.00 - 10.0 ohm-cm | 1.00 - 10.0 ohm-cm |          |
| Surface Resistance     | 10 - 100 ohm       | 10 - 100 ohm       |          |

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China