

## A. Schulman ComAlloy Hiloy® 754 Glass Reinforced, Flow Enhanced, PPS Alloy, UL

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) Alloy, Glass Reinforced, Flow Enhanced

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 40% Glass Reinforced. 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-Hiloy-754-Glass-Reinforced-Flow-Enhanced-PPS-Alloy-UL.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Hiloy-754-Glass-Reinforced-Flow-Enhanced-PPS-Alloy-UL.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.62 g/cc    | 0.0585 lb/in <sup>3</sup> |           |
| Linear Mold Shrinkage | 0.0030 cm/cm | 0.0030 in/in              | ASTM D955 |

| Mechanical Properties      | Metric     | English       | Comments  |
|----------------------------|------------|---------------|-----------|
| Hardness, Rockwell R       | 118        | 118           | ASTM D785 |
| Tensile Strength, Ultimate | 138 MPa    | 20000 psi     | ASTM D638 |
| Elongation at Break        | 3.0 %      | 3.0 %         | ASTM D638 |
| Flexural Strength          | 226 MPa    | 32800 psi     | ASTM D790 |
| Flexural Modulus           | 13.0 GPa   | 1890 ksi      | ASTM D790 |
| Izod Impact, Notched       | 0.960 J/cm | 1.80 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched     | 3.74 J/cm  | 7.01 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) | 271 °C       | 520 °F       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 257 °C       | 495 °F       | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 299 - 310 °C | 570 - 590 °F |          |

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