

## A. Schulman ComAlloy Comtuf® 522 Polycarbonate/Styrenic Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Styrenic Alloy , Polystyrene (PS)

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company. Superior toughness and impact resistance characterize Comtuf® materials. 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-Comtuf-522-PolycarbonateStyrenic-Alloy.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Comtuf-522-PolycarbonateStyrenic-Alloy.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.12 g/cc    | 0.0405 lb/in <sup>3</sup> |           |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in              | ASTM D955 |

| Mechanical Properties      | Metric    | English       | Comments  |
|----------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R       | 112       | 112           | ASTM D785 |
| Tensile Strength, Ultimate | 55.0 MPa  | 7980 psi      | ASTM D638 |
| Elongation at Break        | 160 %     | 160 %         | ASTM D638 |
| Flexural Strength          | 81.0 MPa  | 11700 psi     | ASTM D790 |
| Flexural Modulus           | 2.20 GPa  | 319 ksi       | ASTM D790 |
| Izod Impact, Notched       | 6.03 J/cm | 11.3 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched     | NB        | NB            | ASTM D256 |

| Thermal Properties                          | Metric       | English      | Comments  |
|---------------------------------------------|--------------|--------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 129 °C       | 264 °F       | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 107 °C       | 225 °F       | ASTM D648 |
| Glass Transition Temp, Tg                   | 145 - 150 °C | 293 - 302 °F |           |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 246 - 277 °C | 475 - 531 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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