

## A. Schulman ComAlloy Hiloy® 272 Polystyrene Alloy, Glass Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Glass Filled

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company.20% 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-272-Polystyrene-Alloy-Glass-Reinforced-Flow-Enhanced.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Hiloy-272-Polystyrene-Alloy-Glass-Reinforced-Flow-Enhanced.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.18 g/cc    | 0.0426 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       | 119        | 119            | ASTM D785 |
| Tensile Strength, Ultimate | 72.0 MPa   | 10400 psi      | ASTM D638 |
| Elongation at Break        | 3.0 %      | 3.0 %          | ASTM D638 |
| Flexural Strength          | 93.0 MPa   | 13500 psi      | ASTM D790 |
| Flexural Modulus           | 6.40 GPa   | 928 ksi        | ASTM D790 |
| Izod Impact, Notched       | 0.320 J/cm | 0.599 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched     | 1.49 J/cm  | 2.79 ft-lb/in  | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments  |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 107 °C  | 225 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 97.0 °C | 207 °F  | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 216 - 241 °C | 421 - 466 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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