

A. Schulman ComAlloy Hiloy® 464 Glass Fiber/Bead Reinforced, PET Alloy

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.25% Glass Fiber/Bead 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-464-Glass-FiberBead-Reinforced-PET-Alloy.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------|
| Density | 1.49 g/cc | 0.0538 lb/in ³ | |
| 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 | 107 MPa | 15500 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 169 MPa | 24500 psi | ASTM D790 |
| Flexural Modulus | 7.80 GPa | 1130 ksi | ASTM D790 |
| Izod Impact, Notched | 0.800 J/cm | 1.50 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 7.37 J/cm | 13.8 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------|--------------|-----------|
| Melting Point | 258 - 268 °C | 496 - 514 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 210 °C | 410 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 191 °C | 376 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 296 - 304 °C | 565 - 579 °F | |

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