

A. Schulman ComAlloy Hiloy® 634 Nylon 6/6, Glass Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.43% 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-634-Nylon-66-Glass-Reinforced-Flow-Enhanced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------|
| Density | 1.48 g/cc | 0.0535 lb/in ³ | |
| 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 | 201 MPa | 29200 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 249 MPa | 36100 psi | ASTM D790 |
| Flexural Modulus | 9.50 GPa | 1380 ksi | ASTM D790 |
| Izod Impact, Notched | 1.39 J/cm | 2.60 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | NB | NB | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------|--------------|-----------|
| Melting Point | 255 - 275 °C | 491 - 527 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 230 °C | 446 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 220 °C | 428 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Middle Barrel Temperature | 271 - 285 °C | 520 - 545 °F | |

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