

A. Schulman ComAlloy Hiloy® 638 Nylon 6/6, Mineral Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.35% Mineral 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-638-Nylon-66-Mineral-Reinforced-Flow-Enhanced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------|
| Density | 1.45 g/cc | 0.0524 lb/in ³ | |
| Linear Mold Shrinkage | 0.0050 cm/cm | 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------------|-----------|
| Hardness, Rockwell R | 119 | 119 | ASTM D785 |
| Tensile Strength, Ultimate | 78.0 MPa | 11300 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Strength | 145 MPa | 21000 psi | ASTM D790 |
| Flexural Modulus | 8.20 GPa | 1190 ksi | ASTM D790 |
| Izod Impact, Notched | 0.320 J/cm | 0.599 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 | 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) | 131 °C | 268 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|------------------------|--------|---------|--|
| Processing Temperature | 290 °C | 554 °F | Approximate middle barrel temperature. |

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