

A. Schulman ComAlloy Hiloy® 616 Nylon 6, Mineral Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.40% 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-616-Nylon-6-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	89.0 MPa	12900 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	153 MPa	22200 psi	ASTM D790
Flexural Modulus	7.90 GPa	1150 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.16 J/cm	7.79 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	205 - 225 °C	401 - 437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	203 °C	397 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	260 - 271 °C	500 - 520 °F	

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