

A. Schulman ComAlloy Hiloy® 631 Nylon 6/6, Glass Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 15% 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-631-Nylon-66-Glass-Reinforced-Flow-Enhanced.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	96.0 MPa	13900 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	142 MPa	20600 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.59 J/cm	8.60 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)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648

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

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