

A. Schulman ComAlloy Hiloy® 612 Nylon 6, Glass Reinforced, UL

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.20% 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-612-Nylon-6-Glass-Reinforced-UL.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 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	128 MPa	18600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	6.40 GPa	928 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.91 J/cm	9.20 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)	214 °C	417 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ASTM D648

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

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