

A. Schulman ComAlloy Hiloy® 653 Nylon 6/6, Carbon Fiber Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 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-653-Nylon-66-Carbon-Fiber-Reinforced-Flow-Enhanced.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	181 MPa	26300 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	291 MPa	42200 psi	ASTM D790
Flexural Modulus	16.9 GPa	2450 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.25 J/cm	11.7 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)	262 °C	504 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	253 °C	487 °F	ASTM D648

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

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