

A. Schulman ComAlloy Hiloy® 518 Polycarbonate, Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 40% Carbon Fiber 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-518-Polycarbonate-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	165 MPa	23900 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
Flexural Modulus	14.5 GPa	2100 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.74 J/cm	7.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	289 °F	ASTM D648
Glass Transition Temp, Tg	145 - 150 °C	293 - 302 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	310 °C	590 °F	Approximate middle barrel temperature.

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