

A. Schulman ComAlloy Hiloy® 756 Carbon Fiber Reinforced, Flow Enhanced, PPS Alloy

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) Alloy, Glass Reinforced, Flow Enhanced

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 20% 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-756-Carbon-Fiber-Reinforced-Flow-Enhanced-PPS-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	112 MPa	16200 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	202 MPa	29300 psi	ASTM D790
Flexural Modulus	15.3 GPa	2220 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 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	280 - 290 °C	536 - 554 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	444 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	299 - 310 °C	570 - 590 °F	

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