

A. Schulman ComAlloy Hiloy® 757 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.30% 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-757-Carbon-Fiber-Reinforced-Flow-Enhanced-PPS-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in³	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	128 MPa	18600 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	20.0 GPa	2900 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm	5.00 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)	254 °C	489 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ASTM D648

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

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