

A. Schulman ComAlloy Hiloy® 714 PPS, Glass Reinforced, UL

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 40% 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-714-PPS-Glass-Reinforced-UL.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	145 MPa	21000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	215 MPa	31200 psi	ASTM D790
Flexural Modulus	14.3 GPa	2070 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 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)	263 °C	505 °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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