

A. Schulman ComAlloy Hiloy® 414 Polyester - PBT, Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.45% 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-414-Polyester-PBT-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 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	152 MPa	22000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.41 J/cm	12.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 - 225 °C	410 - 437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	235 - 249 °C	455 - 480 °F	

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