

A. Schulman ComAlloy Hiloy® 413 Polyester - PBT, Glass Reinforced

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

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.33% 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-413-Polyester-PBT-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	
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	121 MPa	17500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.99 J/cm	13.1 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)	221 °C	430 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

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

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