

A. Schulman ComAlloy Hiloy® 446 Glass/Mineral Reinforced, PET Alloy

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.35% Glass/Mineral 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-446-GlassMineral-Reinforced-PET-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	11.2 GPa	1620 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.38 J/cm	8.21 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	258 - 268 °C	496 - 514 °F	
Deflection Temperature at 0.46 MPa (66 psi)	243 °C	469 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 °C	210 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	296 - 304 °C	565 - 579 °F	

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