

A. Schulman ComAlloy Hiloy® 273 Polystyrene Alloy, Glass Reinforced, Flow Enhanced

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Glass Filled

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 30% 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-273-Polystyrene-Alloy-Glass-Reinforced-Flow-Enhanced.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Ultimate	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.28 J/cm	2.40 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	216 - 241 °C	421 - 466 °F	

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