

## A. Schulman ComAlloy E-13370B Internally Lubricated, Glass Fiber Reinforced Polyester Alloy

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Data provided by the manufacturer, ComAlloy International Company. High performance and excellent lubricity with minimal surface wear. 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-E-13370B-Internally-Lubricated-Glass-Fiber-Reinforced-Polyester-Alloy.php](http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-E-13370B-Internally-Lubricated-Glass-Fiber-Reinforced-Polyester-Alloy.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Ultimate	104 MPa	15100 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.40 J/cm	10.1 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.13	0.13	
Coefficient of Friction, Static	0.11	0.11	
K (wear) Factor	28.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	14.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	K=W/PVT where W=wear (inches <sup>3</sup> ); P=applied pressure (psi); V=velocity (fpm); T=time (hours).
Limiting Pressure Velocity	0.770 MPa-m/sec	22000 psi-ft/min	at 0.35 m/s

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	227 °C	441 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ASTM D648

## **Contact Songhan Plastic Technology Co.,Ltd.**

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