

A. Schulman ComAlloy E-16822-1B Internally Lubricated, Carbon Fiber Reinforced Nylon 6/6

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-16822-1B-Internally-Lubricated-Carbon-Fiber-Reinforced-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	
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	164 MPa	23800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.40 J/cm	10.1 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.17	0.17	
Coefficient of Friction, Static	0.20	0.20	
K (wear) Factor	15.9 x 10 ⁻⁸ mm ³ /N-M	7.90 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	K=W/PVT where W=wear (inches ³); P=applied pressure (psi); V=velocity (fpm); T=time (hours).
Limiting Pressure Velocity	3.29 MPa-m/sec	93900 psi-ft/min	at 0.35 m/s

Thermal Properties	Metric	English	Comments
Melting Point	255 - 275 °C	491 - 527 °F	
Deflection Temperature at 0.46 MPa (66 psi)	263 °C	505 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 °C	489 °F	ASTM D648

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