

A. Schulman ComAlloy E-16026N Internally Lubricated, Carbon 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-16026N-Internally-Lubricated-Carbon-Fiber-Reinforced-Polyester-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	165 MPa	23900 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	264 MPa	38300 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.80 J/cm	12.7 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.13	0.13	
Coefficient of Friction, Static	0.10	0.10	
K (wear) Factor	36.3 x 10 ⁻⁸ mm ³ /N-M	18.0 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	0.875 MPa-m/sec	25000 psi-ft/min	at 0.35 m/s

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	219 °C	426 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

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