

A. Schulman ComAlloy E-16769N Internally Lubricated, Glass Fiber Reinforced PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

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-16769N-Internally-Lubricated-Glass-Fiber-Reinforced-PPS.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	124 MPa	18000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.60 J/cm	10.5 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.13	0.13	
K (wear) Factor	32.2 x 10 ⁻⁸ mm ³ /N-M	16.0 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).

Thermal Properties	Metric	English	Comments
Melting Point	280 - 290 °C	536 - 554 °F	
Deflection Temperature at 0.46 MPa (66 psi)	279 °C	534 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	ASTM D648

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