

A. Schulman ComAlloy Lubrilon® 629 Nylon 6/6, Glass Fiber/PTFE Filled, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

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-Lubrilon-629-Nylon-66-Glass-FiberPTFE-Filled-Flow-Enhanced.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 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	163 MPa	23600 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	214 MPa	31000 psi	ASTM D790
Flexural Modulus	9.40 GPa	1360 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D256
K (wear) Factor	28.2 x 10 ⁻⁸ mm ³ /N-M	14.0 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	0.700 MPa-m/sec	20000 psi-ft/min	

Thermal Properties	Metric	English	Comments
Melting Point	255 - 275 °C	491 - 527 °F	
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	271 - 285 °C	520 - 545 °F	

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