

A. Schulman ComAlloy Comtuf® 639 Nylon 6/6, Mineral Reinforced, Impact Modified, Flow Enhanced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Mineral Filled, Impact Grade

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 40% Mineral reinforced. Superior toughness and impact resistance characterize Comtuf® materials. 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-Comtuf-639-Nylon-66-Mineral-Reinforced-Impact-Modified-Flow-Enhanced.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Ultimate	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	5.20 GPa	754 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.74 J/cm	7.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	255 - 275 °C	491 - 527 °F	
Deflection Temperature at 0.46 MPa (66 psi)	232 °C	450 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	290 °C	554 °F	Approximate middle barrel temperature.

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