

A. Schulman ComAlloy Comtuf® 618 Nylon 6, Mineral Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Mineral Reinforced, Impact Grade

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 15% 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-618-Nylon-6-Mineral-Reinforced-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Ultimate	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	23 %	23 %	ASTM D638
Flexural Strength	59.0 MPa	8560 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	205 - 225 °C	401 - 437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	191 °C	376 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	260 - 271 °C	500 - 520 °F	

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