

A. Schulman ComAlloy Voloy® 685 Nylon 6/6, Glass Fiber/Bead Reinforced, Nylon 6/6 Alloy, Flame Retardant, UL

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 48% Glass Fiber/Bead Reinforced. Halogen- and phosphorous-free. 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-Voloy-685-Nylon-66-Glass-FiberBead-Reinforced-Nylon-66-Alloy-Flame-Retardant-UL.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.39 J/cm	2.60 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)	260 °C	500 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ASTM D648

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

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