

A. Schulman ComAlloy E-16831B Polycarbonate, Electrically Conductive - Carbon Fiber Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Conductive

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 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-16831B-Polycarbonate-Electrically-Conductive-Carbon-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	159 MPa	23100 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Izod Impact, Unnotched	5.60 J/cm	10.5 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	289 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	ASTM D648
Glass Transition Temp, Tg	145 - 150 °C	293 - 302 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	100 - 1000 ohm-cm	100 - 1000 ohm-cm	
Surface Resistance	10000 ohm - 1e+05	10000 ohm - 1e+05	

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