

A. Schulman ComAlloy Comshield® 120 Copolymer Polypropylene, Electrically Conductive - Carbon Black Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Carbon Black Filler

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-Comshield-120-Copolymer-Polypropylene-Electrically-Conductive-Carbon-Black-Filled.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	68	68	ASTM D785
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	28.0 MPa	4060 psi	ASTM D790
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Izod Impact, Unnotched	7.70 J/cm	14.4 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	49.0 °C	120 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10.0 - 100 ohm-cm	10.0 - 100 ohm-cm	
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	

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