

RESISTAT® F9322, MERGE F100, is composed of a 22 denier nylon 6 monofilament, which has electrically conductive carbon suffused into the surface, combined with one end of black 75 denier polyester yarn. The components have been twisted together and heat-set. The conductive filament has a round cross section with a coating thickness of approximately one micron. The yarn color is black.

Physical Properties	Typical Values	Average Value	Test Method
Denier	100	100 Denier	ASTM 1907
D'tex	110	110 D'tex	---
Filaments	25	25	---
Tenacity	3.5	3.5 grams/denier	ASTM 2256
Elongation at Break, %	45	45 %	---
Product Yield, approx.	44,647 yards/pound	89,919 meters/kilogram	---

Electrical Properties	Typical Values	Average Value	Test Method
Resistivity	4	4×10^5 ohms/centimeter	---

Chemical Properties	
Mineral Acids, Cold	Good Resistance
Mineral Acids, Hot	Poor Resistance
Concentrated Mineral Acids	Poor Resistance
Alkalis	Good Resistance
Solvents	Good Resistance (except phenolic)
Formic Acid	Dissolves
Water/Hydrolysis	Good Resistance
Melting Point	220° C

Package	
Package Type	Pineapple with transfer tail
Tube	Cardboard: 9 inch long, 2¼ inch OD
Package Weight	3 pounds (Average)
Packing	16 tubes per case (Average)

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