

RESISTAT® F902, MERGE F044 series, is a 44-denier nylon 6 monofilament which has electrically conductive carbon suffused into the surface. This product has been formulated for improved surface properties and a lower coefficient of friction. The 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	42 - 46	44 Denier	ASTM 1907
D'tex	47 - 51	49 D'tex	---
Tenacity	3 - 5	4 grams/denier	ASTM 2256
Elongation at Break	48 - 52%	55 %	---
Product Yield, approx.	101,465 yards/pound	204,351 meters/kilogram	---

Electrical Properties	Typical Values	Average Value	Test Method
Resistivity	1.5	1.5 x 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, 2 inch OD
Package Weight	2.2 pounds (Average)
Packing	17 tubes per case (Average)

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