

RESISTAT® F9416, MERGE M040, is composed of forty filaments of conductive nylon 6,6 yarn. This yarn is twisted and heatset. Each filament has electrically conductive carbon suffused into the surface. The conductive filaments have 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	640	640 Denier	ASTM 1907
D'tex	700	700	---
Filament Count	40	40	---
Tenacity	3.8	3.8 grams/denier	ASTM 2256
Elongation at Break, %	25	25 %	---
Twist	2.5 TPI	2.5 TPI	---
Twist Direction	Z	---	---
Product Yield, approx.	6,976 yards/pound	14,055 meters/kilogram	---
Melt Point	254°C	254°C	---

Electrical Properties	Typical Values	Average Value	Test Method
Resistivity	5	5×10^3 ohms/centimeter	---

Package	
Package Type	Pineapple with transfer tail
Tube	Cardboard: 8 inch long, 2¼ inch OD
Package Weight	2.8 pounds (Average)
Packing	50 tubes per case (Average)

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