



FLUOROWRAP®

DF1400 and DF1471

Engineered for High Performance Insulation

Electrically Conductive Cast PTFE Tapes

FLUOROWRAP® DF1400 and DF1471 are multilayer heat sealable fluoropolymer films with options for conductive layers.

Features/Benefits

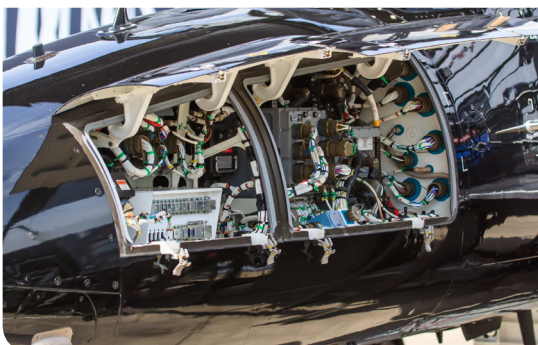
- Conductive fluoropolymer may offer partial discharge resistance
- Superior electrical and mechanical performance in a wide range of extreme chemical, moisture, thermal, and electrical environments
- Thin gauge and light weight
- High tensile strength and high elongation
- Uniform tensile properties in both machine and transverse directions
- Isotropic shrinkage as a function of temperature
- Low dielectric constant and high dielectric strength
- RoHS and REACH compliant

Availability

Tape widths available at 0.10" (2.5 mm) and wider. Tapes are available on industry standard 3" (76 mm) ID cores in flat-pad, traverse wound and StablEdge™ packages. Customized solutions are available.

Applications

Wire and Cable for extreme environments



FLUOROWRAP® DF1400 and DF1471 Typical Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Property	DF1400 (English Units)	DF1400 (Metric Units)	DF1471 (English Units)	DF1471 (Metric Units)	Tolerance	Method
Thickness	2.5 mil	0.064 mm	2.0 mil, 4.0 mil	0.051 mm, 0.102 mm	+/- 10% of nominal	Bench Micrometer
Tensile Strength (minimum)	4,300 psi	29.6 MPa	3,000 psi	20.7 MPa	-	ASTM D882
Elongation (minimum)	400 %		300 %		-	ASTM D882
Elastic Modulus	60,000 psi	413.7 MPa	60,000 psi	413.7 MPa	-	ASTM D882
Dielectric Constant, 60-108Hz	12.0		12.0		-	ASTM D150
Power/Dissipation	0.036		0.036		-	ASTM D150
Surface Resistivity (Ohms/sq inch)	1,000 - 10,000		10,000 (minimum)		-	ASTM D257
Volume Resistivity	Conductive		Conductive		-	ASTM D257
Dielectric Strength	4,200 volts/mil	165.35 kV/mm	-		-	ASTM D149
Surface Arc Resistance	Does Not Arc		Does Not Arc		-	ASTM D495
Continuous Service Temperature	-400 °F, +500 °F	-188 °C, +260 °C	-400 °F, +500 °F	-188 °C, +260 °C	-	-

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