



FLUOROWRAP®

DF1700 and DF1900

Engineered for High Performance Insulation

Heat Sealable Cast PTFE Tapes

FLUOROWRAP® DF1700 and DF1900 are heat sealable multilayer cast fluoropolymer films. These films have a PTFE core with thin bonding layer(s) of FEP or PFA on one or both surfaces. Laser markable (LM) tapes are available in various colors.

Features/Benefits

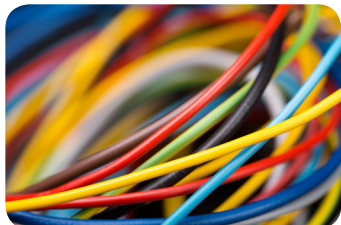
- Thin gauge PTFE Films
- Heat sealable bonding layers
- High tensile strength and high elongation
- Uniform tensile properties in both machine and transverse directions
- Isotropic shrinkage as a function of temperature
- Low dielectric constant and high dielectric strength
- Different polymers, pigments and additives can be used in the individual layers to customize performance and function
- Superior electrical and mechanical performance in a wide range of extreme chemical, thermal and electrical environments
- RoHS and REACH compliant

Availability

Please inquire for available colors and laser markable information. 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 available.

Applications

- Wire and cable for extreme environments
- Laser markable wire and cable



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FLUOROWRAP® DF1700 and DF1900 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	Value (English Units)	Value (Metric Units)	Tolerance	Method
Thickness – DF1700	0.5 – 5.0 mil	0.013 – 0.13 mm	+/- 10 % of nominal	Bench Micrometer
Thickness – DF1900	1.0 – 5.0 mil	0.025 – 0.13 mm	+/- 10 % of nominal	Bench Micrometer
Tensile Strength (minimum)	4,300 psi	29.6 MPa	-	ASTM D882
Elongation (minimum)	400 %		-	ASTM D882
Elastic Modulus	60,000 psi	413.7 MPa	-	ASTM D882
Dielectric Constant, 60-108Hz	2.0		-	ASTM D150
Power/Dissipation	<0.0001		-	ASTM D150
Surface Resistivity	1 x 10 ¹⁶		-	ASTM D257
Volume Resistivity	>10 ¹⁵		-	ASTM D257
Dielectric Strength	4,200 volts/mil	165.35 kV/mm	-	ASTM D149
Surface Arc Resistance	Does Not Arc		-	ASTM D495
Continuous Service Temperature	-400 °F, +500 °F	-188 °C, +260 °C	-	-

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