

DF1400 and DF1471

CHEMFILM® DF1400 and DF1471 are multilayer cast PTFE films produced using a proprietary process. The DF1400 has a non-conductive, fully fused, PTFE core coated with a conductive fluoropolymer formulation designed to be applied over jacketed wire and cable using standard tape-wrap equipment. The DF1471 is a fully conductive PTFE that is also available with a conductive FEP surface.

FEATURES	BENEFITS
Cast Film	<ul style="list-style-type: none">• Uniform tensile properties in both machine and traverse direction• Isotropic shrinkage as a function of temperature
Multilayer	<ul style="list-style-type: none">• Polymers and additives may be added to individual layers to customize performance
Fluoropolymer	<ul style="list-style-type: none">• Superior performance in a wide range of chemical, thermal and electrical environments
Slitting	<ul style="list-style-type: none">• Available in slit widths to 1", supplied in pad rolls; minimum quantities apply

Typical Properties

	Method	Value
MECHANICAL		
Tensile Strength (psi)	ASTM D882-54T	4,000
Elongation (%)	ASTM D882-54T	400
Elastic Modulus (psi)	ASTM D882	60,000
Continuous Service Temp.		+500°F, -400°F +260°C, -188°C
ELECTRICAL		
Dielectric Constant, 60-10 ⁸ Hz	ASTM D150	12.0
Power/Dissipation	ASTM D150	0.036
Surface Resistivity	ASTM D257	Conductive
Volume Resistivity	ASTM D257	Conductive
Dielectric Strength (volts/mil)	ASTM D149	4,200 (DF1400 only)
Surface Arc Resistance	ASTM D495	0
Product Number		
	DF1400	DF1471
Available Gauge (mil)	2.5	1.0-4.0
Colors	Black	Black

Values shown are typical. Certified test reports for writing specifications are available.

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