

DF1100 and DF1200

CHEMFILM® DF1100 is a multilayer cast PTFE film, fully fused, with one surface modified to render it receptive to many conventional adhesives, elastomers, resins and potting compounds. The surface treatment was developed to assure that its application over pure PTFE would not degrade or discolor the basic film. After surface treatment, the PTFE film loses none of its excellent physical and electrical characteristics, except that the surface treatment results in a natural color which does not affect any of the desired properties. CHEMFILM type DF1200 is DF1100 laminated to 2 mils of acrylic pressure sensitive adhesive.

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"> • The unique bonding layer will adhere to a variety of adhesives and elastomers while the other surfaces maintain all the properties of PTFE • Pigments and other additives may be added to individual layers to customize performance
PTFE	<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	4,300
Elongation (%)	ASTM D882-54T	400
Elastic Modulus (psi)	ASTM D882	60,000
Coefficient of Friction	ASTM D194	0.2
ELECTRICAL		
Dielectric Constant, 60-10 ⁸ Hz	ASTM D150	2.0
Power/Dissipation	ASTM D150	0.009
Surface Resistivity	ASTM D257	2.0 x10 ¹⁷
Volume Resistivity	ASTM D257	>10 ¹⁵
Dielectric Strength (volts/mil)	ASTM D149	4,200
Surface Arc Resistance	ASTM D495	Does not arc
Product Number	DF1100	DF1200
Available Gauge (mil)	1.0-5.0	1.0-5.0 (base film w/o adhesive)
Colors	On request	On request
Continuous Service Temp.	+500°F, -400°F +260°F, -188°F	+300°F, -100°F +140°F, -90°F

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

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