



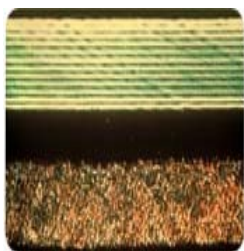
DF1100 and DF1200

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, expect that the surface treatment results in a natural color which does not affect any of the desired properties. CHEMFILM® DF1200 is DF1100 laminated to 2 mils of acrylic pressure sensitive adhesive.

Material is also available in slit widths to 1", supplied in pad rolls; minimum quantities apply.

Septa

Pharmaceutical compounds and analytical samples, such as for water testing, cannot be contaminated by its packaging. DF1100 is widely used in Septa applications due to the bonding ease with other plastics and rubbers when specially treated, as well as the fundamental chemical inertness of pure PTFE. With its multilayer construction, reducing the risk of pinholes, DF1100 acts as an excellent barrier film in various Septa applications.



Multi-layer Cast Film (top) reduces risk of contamination when compared to skived film (bottom)



Cast Film can be used as a barrier film

Advantages

- Isotropic shrinkage
- Uniform tensile properties in machine and traverse direction
- Multilayer reducing the risk of pinholes or contamination
- The unique bonding layer will adhere to a variety of adhesives and elastomers while the other surface maintain all the properties of PTFE
- Superior performance in a wide range of chemical, thermal, and electrical environments

Availability

- Can be slit or provided as at 20" or 38" rolls
- Various colors and customizations available on request.

CHEMFILM® Typical Physical Properties*

Typical Properties	Test Method	Value	Units
Mechanical			
Tensile Strength	ASTM D-882	29.6 (4,300)	MPa (psi)
Elongation	ASTM D-882	400	%
Elastic Modulus	ASTM D-882	413 (60,000)	MPa (psi)
Coefficient of Friction	ASTM D-194	0.2	
Electrical			
Dielectric Constant	ASTM D-150	2.0	60-10 ⁸ Hz
Power/Dissipation	ASTM D-150	<.0001	
Surface Resistivity	ASTM D-257	9x10 ⁷	
Volume Resistivity	ASTM D-257	>10 ¹⁵	
Dielectric Strength	ASTM D-149	4200	volts/mil
Surface Arc Resistivity	ASTM D-495	Does not arc	
Product Number			
	DF1100	DF1200	
Continuous Service Temp.	-188 to 260 (-400 to 500)	-90 to 140 (-100 to 300)	°C (°F)

*Represent typical performance properties and should not be used for specification purposes

Contact your Saint-Gobain Performance Plastics representative for more information.



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