



PTFE CAST FILMS

DF1100 & DF1200

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. **DF1200** is DF1100 laminated to 2 mils of acrylic pressure sensitive adhesive.

TYPICAL PROPERTIES

PROPERTY	METRIC	IMPERIAL	TEST METHOD
Standard Widths	500, 955 mm	19.7, 37.6 in	-
Thickness Available	0.025 to 0.127 mm	1 to 5 mil	FTMS 191A-5030
Tensile Strength	29.6 MPa	4,300 psi	ASTM D-882
Elastic Modulus	413 MPa	60,000 psi	ASTM D-882
Coefficient of Friction	0.2		ASTM D-194
Elongation	400 %		ASTM D-882
Dielectric Constant	2.0 60-10 ⁸ Hz		ASTM D-150
Power Dissipation	< 0.0001		ASTM D-150
Surface Resistance	9 x 10 ⁷ Ω/cm ²		ASTM D-257
Dielectric Strength	4200 volts/mil		ASTM D-257
Surface Arc Resistivity	Does not arc		ASTM D-495

FEATURES AND BENEFITS

- Isotropic properties
- Uniform tensile properties in machine and traverse direction
- Multilayer reducing the risk of pinholes or contamination
- Superior performance in a wide range of chemical, thermal, and electrical environments
- Colors and customization available on request

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IMPORTANT: Pictures shown are for illustration purpose only. The values presented are typical values and should not be used for specification purposes. Contact your representative for more information. It is the user's responsibility to ensure the suitability and safety of Versiv Composites products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Versiv Composites Limited assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication, or application of the products into which the materials are incorporated by purchaser and/or user.

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