



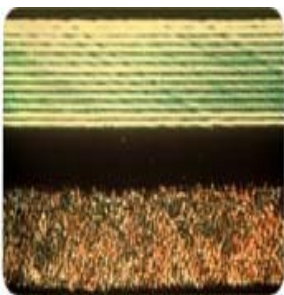
DF100 and Type C/CD

Saint-Gobain has been an innovator in the industrial application of fluorocarbon resins for over 40 years. We have pioneered many sophisticated and novel film and tape products using a multi-laminar casting process. Cast PTFE based material is made up of very thin layers which have been individually deposited, sintered and fused together to produce a material having more uniform properties than can be achieved by any other manufacturing process.

CHEMFILM® type C, type CD (duplex wound) and **DF100** are multilayer cast PTFE films produced using a proprietary process.

Electrical Insulation

Combining the uniform tensile properties, excellent dielectric properties, and isotropic shrinkage with temperature DF100, and Type C/CD films act as excellent films for dielectric insulation. When combined with the highly consolidated construction of the film this product is able to provide a thin product, along with a decreased risk of pinholes.



Multi-layer Cast Film (top)
compared to Skived PTFE
(bottom)

Advantages

- Thin gauge PTFE, thinner than possible than with Extruded or Skived PTFE
- Multilayer construction reduces pinhole risk
- Uniform Tensile properties in Machine and Traverse direction
- Isotropic shrinkage
- Superior performance in a wide range of chemical, thermal, and electrical environments

Availability

- Product thickness: C/CD- 0.17-0.75 mils, DF100- 1-5.0 mils
- Width up to 457 mm (18")
- Colors and customization 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)
Continuous Service Temperature		-188 to 260 (-400 to 500)	°C (°F)
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	

*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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