



PTFE Cross Laminated Films

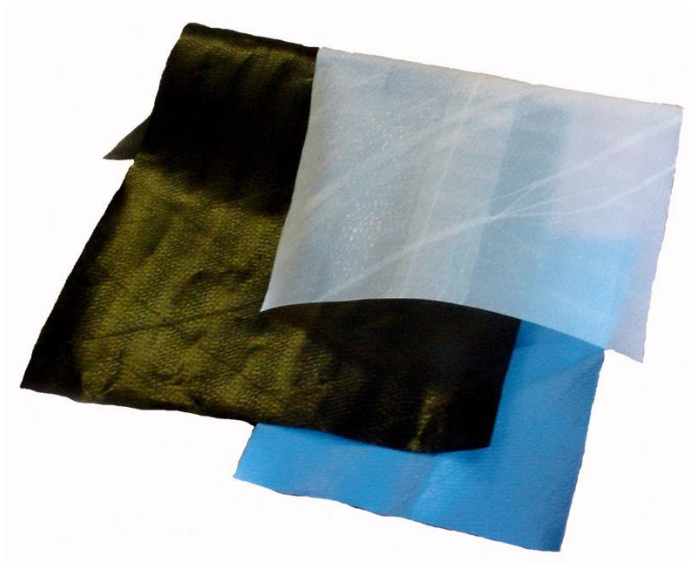
Filcoflex B.V.'s PTFE Cross Laminated Films are 100% PTFE material that is guaranteed corrosion and contamination free, resists tearing, and has superior flexing capabilities compared to other PTFE products. PTFE Cross Laminated Films can be heat-sealed and is unaffected by UV exposure or moisture.

Because this is an all-PTFE product with excellent mechanical capability and multi-directional strength, PTFE Cross Laminated Films do not require and compromising reinforcement. Regardless of chemical exposure, PTFE Cross Laminated Films remain corrosion free and non-flammable.

PTFE Cross Laminated Films is proven in laboratory and industrial settings its ability to retain all its physical properties regardless of chemical environment.

Filcoflex B.V.'s PTFE Cross Laminated are created using a crossed multi directional pattern typically created from 0.07mm or 0,10mm film plies to produce a material with exceptional 360° tear strength and durability. Because PTFE Cross Laminated Films consist solely of PTFE resins, the product is considered chemically inert and can be used in high temperature applications, depending upon the thickness of the Film used. PTFE Cross Laminated Films has an unlimited shelf life and is compatible with all chemicals.

Available in various standard colors, black electric conductive versions, and various thicknesses



General Properties

Description :	Poly Tetra Fluor Ethylene
Operating Temperature :	-60 °C to 300 °C -76 °F to 572 °F
Max. Surge Temp :	316 °C / 600 °F
Chemical Resistance :	Considered to be nearly Chemically inert
Type of Material :	Sheet on roll, 1200 (+/- 20mm) x 6000mm (custom on request)

Material :	2105	2109 BI/Gr	2110	2112 AS	2120 AS	2120 TRA	2130	2140	2150	2160
Colour :	various	Bleu + Grey	various	Black	Black	Translucent	Bleu	White	various	various
Weight (gr/sqm) :	272	457,8	544	598	1088	1088	1632	2175	2727	3264
Thickness (mm) :	0,13	0,23	0,26	0,30	0,51	0,51	0,76	1,02	1,27	1,60
Tensile Strength (N/50mm) :	205	223,4	350	357,5	778	778	1135	1475	1734	2510
Tear Strength (N) :	80,1	99,8	156	158,8	295	295	372,1	500	658	1089
Hardness (°Shore A) :	96	96	96	96	96	96	96	96	96	96

Pressure Resistance for Flexible Connectors

0,34 Bar / 5.0 PSI For temperatures up to 90 °C / 195°F

Please see "Operating Pressure Guide" for further information.

we recommend using the shortest possible connector for applications where increased pressure and/or high temperature is expected. Please contact us for more information.

ATEX & Explosion Safety

Explosion Pressure : no tests have been performed, this can be done upon request

Electrostatic Surface Resistance :

PTFE2112 AS Black FDA	< 10 ⁶ Ohm	Conductive
PTFE2120 AS Black FDA	< 10 ⁶ Ohm	Conductive

PTFE2120 Translucent FDA	> 1,8 x 10 ⁹ Ohm	Insulating
Sleeve Length	<100mm	
Airspeed	not important	
	= Powders MIE* >1mJ	

Sleeve Length	100 – 1000mm
Airspeed	>2m/s
	= Powders MIE* >1000mJ
Airspeed	<2m/s
	= Powders MIE* >10mJ

*-MIE means Minimum Ignition Energy

Despite being insulating the material has been tested, to which relation it can be used in powder and dust transportation system. The relation between airspeed, maximum sleeve length and Minimum Ignition Energy of the powder or dust has been well documented in a report so that PTFE2120 can be implemented in explosion hazardous environments if designed within described parameters.

Name of the reports;

['9075, Report Suitability flexibles 2015 Filcoflex 02.pdf'](#)

['TL9075TestReport_Filcoflex_original/pdf'](#)

Both reports are available upon request

PTFE films of other thicknesses or colors have not been tested thus far.

Filcoflex B.V.

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Food Contact Compliancy

Filcoflex B.V. hereby declares that below mentioned list (1) of PTFE Cross Laminated Films comply with the following regulations (2) for repetitive contact with food and foodstuffs.

PTFE Cross Laminated Films (1):

- PTFE 2109 Blue/Gray
- PTFE 2112 AS Black
- PTFE 2120 AS Black
- PTFE 2120 Translucent
- PTFE 2130 Blue

List of regulations to which the product complies (2)

FDA 21 CFR of the United States of America:

- 177.1550
- 177.3297

European Union :

- (EC) 1935/2004
- (EC) 10/2011
- (EC) 2003/11
- (EC) 2005/59

Other regulations :

- REACH (SVHC)
- ROHS

Free of substances

None of the following chemicals is intentionally added to PTFE cross Laminated Films, and are there for suspected to not be present in the PTFE material.

- Polyvinyl Chloride (PVC)
- Phthalates
- Melamine
- Silicone
- Latex
- BSE / TSE
- Animal Derived Ingredients
(Blood, carrion, pork, animal slaughtered without mentioning the name of Allah/God, wild animal/carnivore, animal with sharp teeth and claws, amphibia)
- Khamr
- Part of Human body
- Peanuts and products thereof

Migration Testing Reports

No migration testing reports are available at this moment

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Production Methods used

Joining / Bonding:

- Hot Bar Sealing / Welding
Bonded by PFA film as an adhesion / reaction layer between the PTFE layers
- No Glue or chemicals are used

Thermo Forming :

- Hot bar bending / High pressure vacuum thermos forming

Cutting :

- Stainless Steel knives
- Water Jet
- Not Suitable for laser cutting