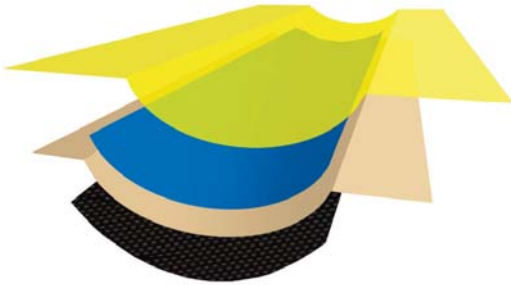
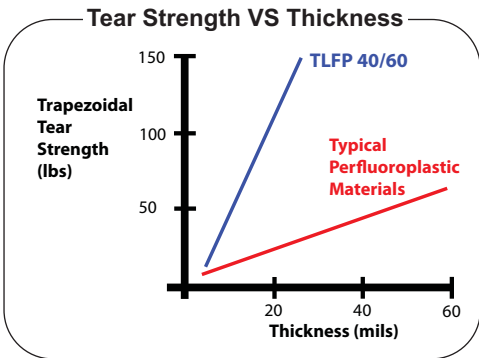




Thorburn's TLFP is the 1st major improvement in the fluoroplastic industry in 40 years



TLFP is made from 100% Multi-Directional PTFE resins which make it virtually chemically inert. The thermal stability of PTFE provides service temperatures up to 315°C (600°F).



TLFP Technology:

Breakthrough technology permits thick PTFE liners to be used in expansion joint service without the fear of stress cracking due to severe operating conditions. TLFP 40/60, as shown in the comparison chart above, is a different perfluoroplastic altogether.

100% PTFE Corrosion & Stress Cracking Resistant Gas Seal Membrane

Thorburn has learned over many years that the success of an expansion joint application is directly related to the survival of the Gas Seal Membrane (GSM). Thorburn's TLFP consists solely of PTFE resins and is therefore chemically inert, it cannot be chemically degraded and is completely unaffected by hydrofluoric gases, making it an ideal GSM in a potline exhaust ducting system. The GSM is typically the only viable material residing between corrosive flue gas and the environment. Thorburn's TLFP GSM is specifically designed to provide longer lasting maintenance-free life even in the most chemically aggressive industrial environments.

Thorburn's Series TLFP GSMs are being used worldwide as the sole expansion joint material in aluminum smelters, chemical plants, power plants and paper mills. Thorburn's TLFP material exhibits excellent flexing capabilities because it is comprised of multiple layers of thin PTFE film applied in multiple directions.



One of the most difficult flue duct applications is found in the aluminum potline ducting systems. Chemically aggressive hydrofluoric gases at temperatures up to 400°F attack and destroy Viton and eventually the PTFE coated fiberglass GSM.

TLFP Technical Data:

	TLFP 40	TLFP 60
Overall Weight	60 oz/yd ² (2034 g/m ²)	90 oz/yd ² (3052 g/m ²)
Thickness	0.04 in (1.02 mm)	0.06 in (1.52 mm)
Tensile Strength	132 lbf/in (1156 N / 50 mm)	190 lbf/in (1664 N / 50 mm)
Trap Tear Strength	106 lbf (472 N)	152 lbf (676 N)
Temperature Range	To 600°F (316°C) Continuous Service	To 600°F (316°C) Continuous Service

The information above is supplied in good faith and is based on information currently available. Thorburn Flex Inc makes no warranties, either expressed or implied, including any warranties for fitness or use for a particular purpose, unless expressly set forth.

TLFP Benefits:

- Thicker film ultimate corrosion barrier
- Exceptional flexing & fatigue performance
- Low permeation
- High Mechanical Capabilities
- Suitable for Applications Up To 315°C

The TLFP layers are crossed and laminated to produce a multi-directional based corrosion barrier that allows for a thicker Gas Seal Membrane without compromising flexibility and flex life



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