

**Product Description:**

Thorburn has learned over many years that the success of an expansion joint application is directly related to the survival of the corrosion barrier. The expansion joint's Gas Seal Membrane (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 GSM's are being used worldwide as the sole expansion joint material in aluminum smelters, chemical plants, utilities and paper mills. Thorburn's TLFP material exhibits excellent flexing capabilities in high temperature applications and can not be chemically degraded.

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.

Thorburn's TLFP consists solely of PTFE resins and is therefore chemically inert and completely unaffected by hydrofluoric gases, making it an ideal GSM in a potline exhaust ducting system.

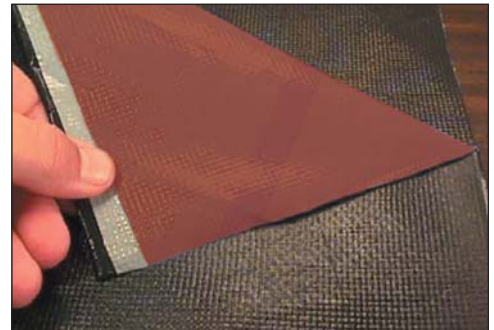
**TLFP Benefits:**

- Formidable Corrosion Barrier at High Temperatures
- Low Permeation
- High Mechanical Capabilities
- Exceptional Flexing Performance

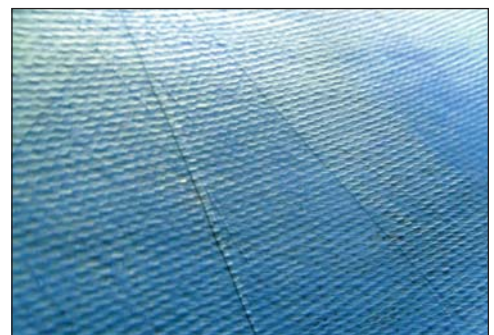
TLFP 40	
Overall Weight	62 oz/yd <sup>2</sup> (2102 g/m <sup>2</sup> )
Minimum Overall Thickness	0.04 in (1.02 mm)
Tensile Strength	165 lbf/in (1445N/50mm)
Trap Tear Strength	110 lbf (489N)
Pressure Range	± 2psi@400° interm 3 psi
Temperature Range	Up to 600°F

TLFP 60	
Overall Weight	103 oz/yd <sup>2</sup> (3492 g/m <sup>2</sup> )
Minimum Overall Thickness	0.06 in (1.52 mm)
Tensile Strength	282 lbf/in (2470N/50mm)
Trap Tear Strength	241 lbf (1072N)
Pressure Range	± 2psi@400° interm 3 psi
Temperature Range	Up to 600°F

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.



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



*Thorburn's 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 600°F.*

**CRN for all Canadian Provinces**



N285.0 | B51



ASME "U" Stamp (Registered)



B31.1 | B31.3



ISO 9001: 2008



ASME "N" Stamp (In Progress)



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