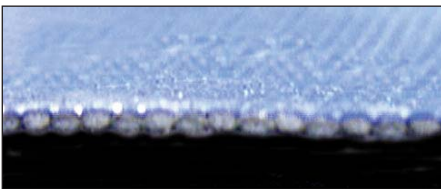


Thorburn's K12 PTFE Coated Fibre Fabric Belt comes with multi-directional, non-porous, zero porosity, PTFE corrosion barrier



PTFE laminated on one side 0.006" (0.15mm)  
Cross-Section showing PTFE coated fibreglass reinforcement



**K12 PTFE Films** are crossed & laminated to produce a Multi-Directional based corrosion barrier

### Gas Seal Membrane

Thorburn's K12 Gas Seal Membrane is a fluoropolymer coated fibreglass fabric with PTFE laminated film on one side. K12 GSM is engineered for dry/wet service, gas seal Expansion Joints. K12 absorbs thermal growth and movement of a ducting system while containing internal pressures and media.

- Successfully used in expansion joint service since 1990.
- Severe chemical and temperature exposure capabilities.
- Custom engineered upon request.

### Design Temperature

600°F (316°C) Continuous Service as per ASTM C-411 hot service test

### Permeability

K12 GSM is non-porous and offers zero porosity to pressurized gasses.

### Tensile & Flex/Fold Test

Meets the breaking strength test as per ASTM D-751; Flex/fold test in accordance with ASTM D2176 with a maximum 30 flex-fold cycles.

## Thorburn's K12 Design Specifications

Thorburn Type K12 PTFE Coated Fibreglass Fabric c/w Teflon Film Laminated to 1 side		
Thickness (Overall)	0.042"(1.07mm)	± 0.005" (± 0.13mm)
Weight	52 oz. / yd. <sup>2</sup> (200gm/m <sup>2</sup> )	± 1.5 oz. / yd. <sup>2</sup> (± 51gm/m <sup>2</sup> )
Weight (600°F (316°C))	600°F (316°C)	N/A
Excursion temperature	650°F (343°C)	N/A
Reinforcement Type	Specially woven fibreglass fiber & PTFE coatings	N/A
<b>Breaking Strength (1" wide specimen) ASTM D-751</b>		
Longitudinal	1200 lbs/in (5338 N/25mm)	1000 lbs/in min
Transversal	1200 lbs/in (5338 N/25mm)	1000 lbs/in min
Film Type	Multi-Directional PTFE	N/A
Film Thickness	.006" (0.15mm)	± 0.0005" (± 0.012mm)
Chemical Resistance	Good	N/A
Other:	Heat sealable	N/A
	Hot/dry with occasional outage service	N/A
	Non-porous	N/A

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