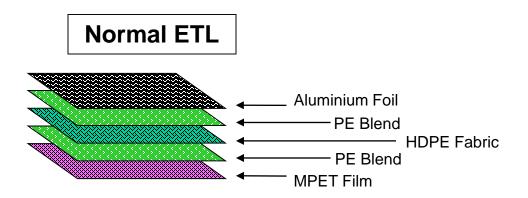
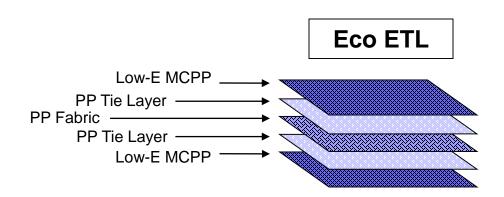
ENVIRONMENTAL FRIENDLY THERMAL INSULATION LINER – ECO ETL



Structural Differences

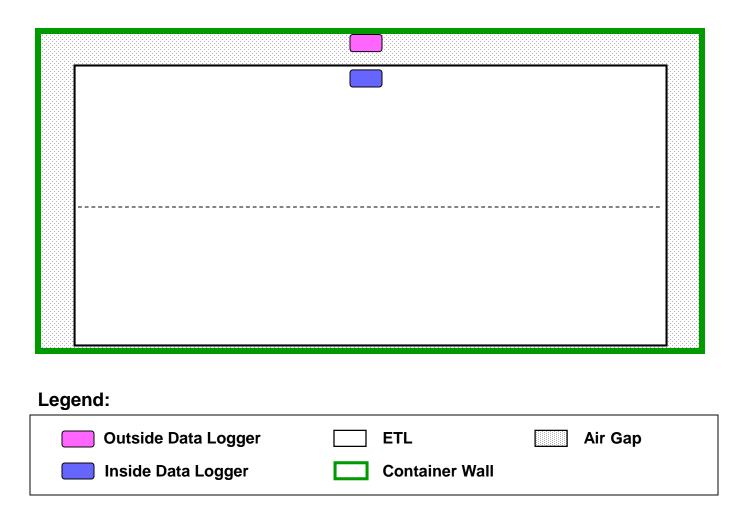




Actual Shipment Trial

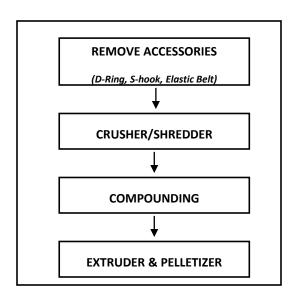
- 1. Normal ETL and Eco ETL were installed into separate 20ft ISO freight containers and data loggers installed to collect the date.
- 2. Both containers were shipped together from Port Klang, Malaysia to Melbourne, Australia.

Position of data logger in ETL (side view)



Recycling

- 1. Upon arrival, goods are unloaded from the freight container and the Eco ETL is dismantled.
- 2. All the accessories, such as S-hooks, D-rings and elastic belts are removed. Process flow as below:



Temperature profile for Actual shipment trial

ETL	Temp (°C)	Min.	Max	Temperature fluctuation (°C)
Eco	Inside	19.2	39.3	20.1
	Outside	9.2	62.9	53.7
Normal	Inside	17.5	42.3	24.8
	Outside	9.7	72.4	62.7

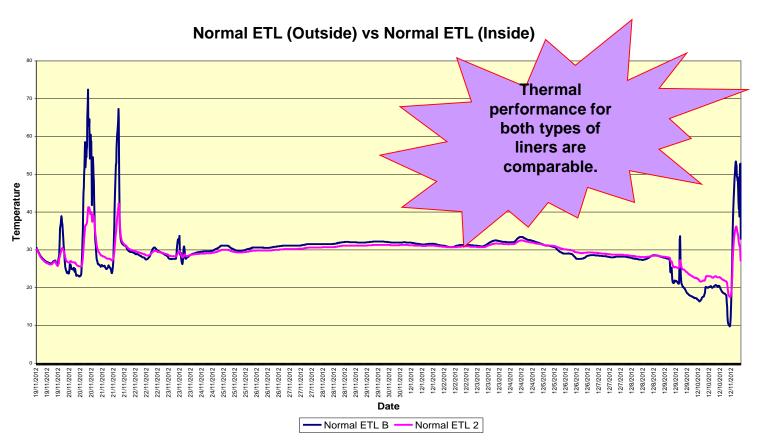
Temperature profile Actual shipment trial-cont...

ECO ETL (Outside) vs ECO ETL (Inside)



Temperature fluctuation inside the Eco liner is 20.1°C whereas outside is 53.7°C

Temperature profile Actual shipment trial-cont...



Temperature fluctuation inside the normal ETL was 24.8°C whereas outside is 62.7°C

Recycling trial

Resin produced was good of quality from commercial PP recycle machine.

The Melt Index of the resin is 15g/10min, suitable for injection molding industry.



Recycled resin pellet

The performance of Eco ETL is similar to normal ETL.

It can be recycled using the commercial PP recycling machine.