Introduction of "LIMEX" materials and items





1. What is LIMEX?

What is LIMEX

LIMEX: An innovative material made from "limestone" + "X" (unlimited potential).



Earth is the planet of stone…

✓ Limestone is abundant and available all over the world



We developed LIMEX sheet/pellets

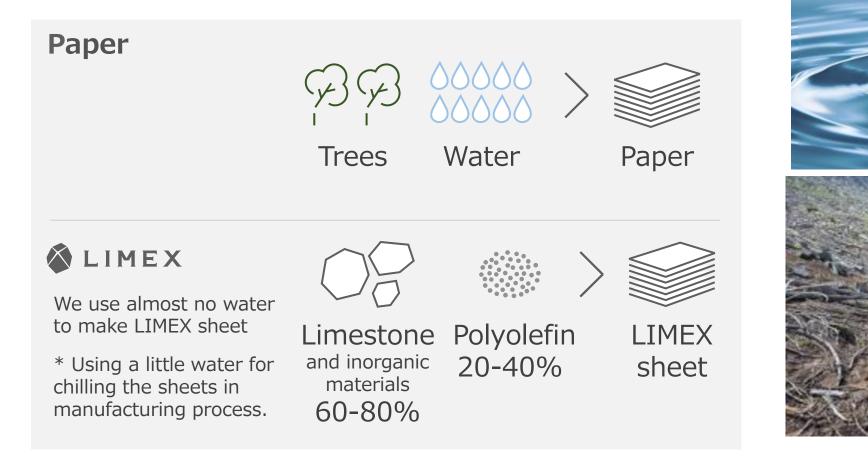
- ✓ Can be manufactured with existing molding, recycling and printing machines
- \checkmark Min 50% of inorganic materials as final products

We achieve Ecological & Economical Sustainability

What is LIMEX?

As alternative to Paper

- ✓ Save water and trees
- ✓ Water resistance & better durability (no need coating)

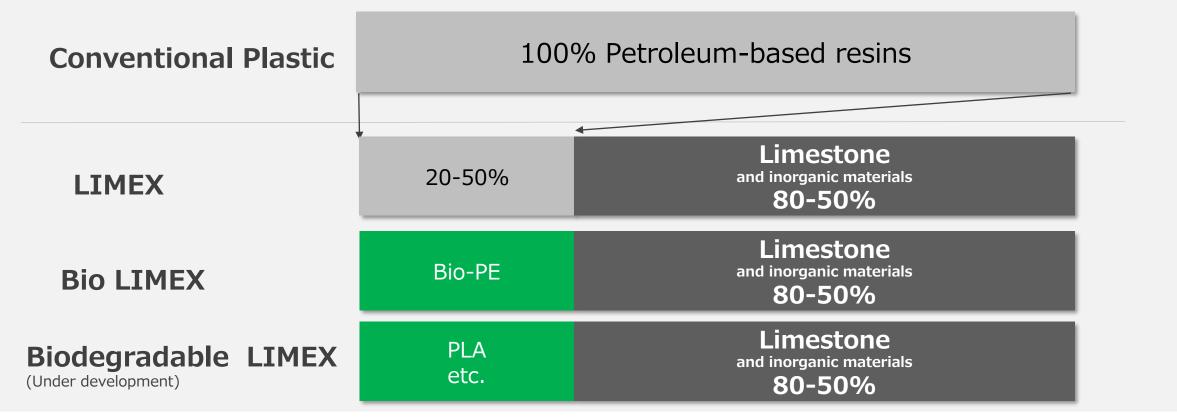


* We adjust the percentage of limestone depending on application and quality requirements.

What is LIMEX?

As alternative to Plastic

✓ Drastically reduce use of petroleum-based resins



* For Bio-degradable LIMEX, bio-degradable grade (PLA + Limestone) is under development.

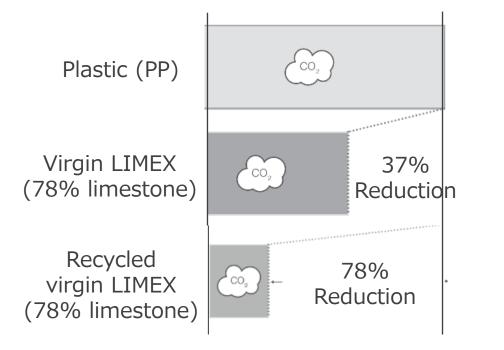
* We adjust the percentage of limestone depending on application and quality requirements.

As alternative to Plastic

✓ Improve LCA

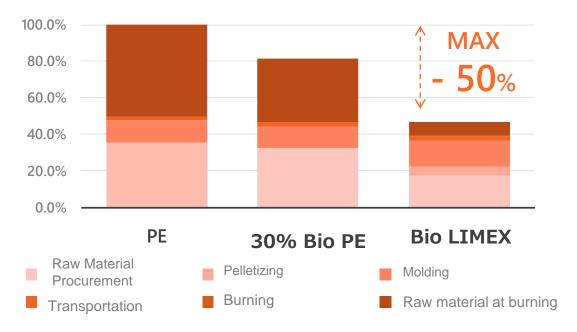
CO2 Emission

in the process from raw material procurement to manufacturing and per-kg basis.



CO2 Emission for Plastic Shopping Bags

Estimated greenhouse gas emissions [kg-CO2 eq / 1pc]

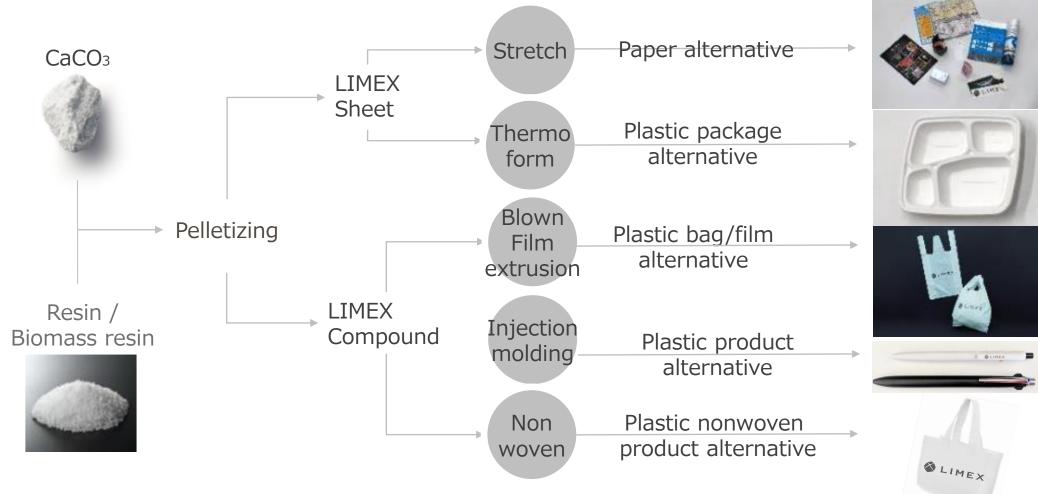


Source: TBM, jointly conducted by the Industrial Environment Management Association Scope: Raw material procurement ~ manufacturing (depending on production condition)

What is LIMEX?

Economical & Practical

✓ LIMEX is applicable to various existing molding machines and methods.
No additional investment and manufacturing process change is required.



(Blow molding coming soon)

What is LIMEX?

LIMEX can be upcycled

What is upcycle? \bigcirc

To achieve sustainable manufacturing, used products are recycled to **value-added products.** It aims to change consumers' mindset to **"Used products are not waste but are resources"** and their lifestyle. It is different from conventional concept of recycling (converting to raw materials and re-use them which has lower quality).

✓ LIMEX can be upcycled from paper alternative sheets to plastic alternative products

Same components in LIMEX sheets (for paper alternatives) and Limex pellets (for plastic alternatives)







mold

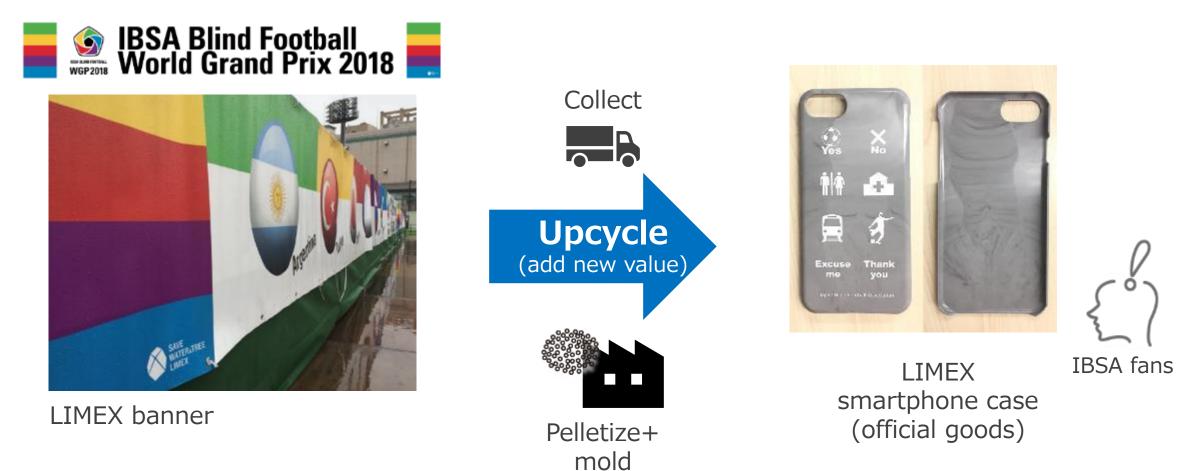
Plastic alternative LIMEX



Upcycling – Blind Soccer -

IBSA game in March 2018

IBSA game in July 2018



Upcycling - Collaboration with 7-Eleven Japan for Sustainable Circular Economies

7-eleven Japan in Okinawa uses Bio LIMEX Bag \rightarrow Customers bring it back to the stores (by campaign) \rightarrow Donate upcycled "LIMEX lunch plate" to orphan's houses.



2. Item example / production image

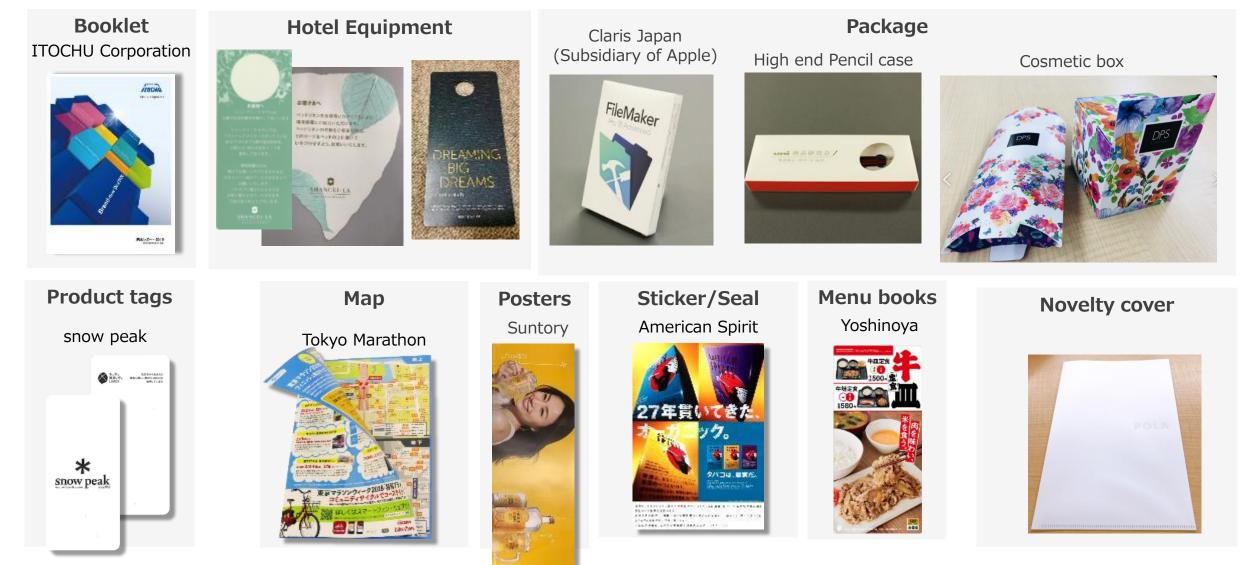
Paper alternatives

LIMEX Business Card

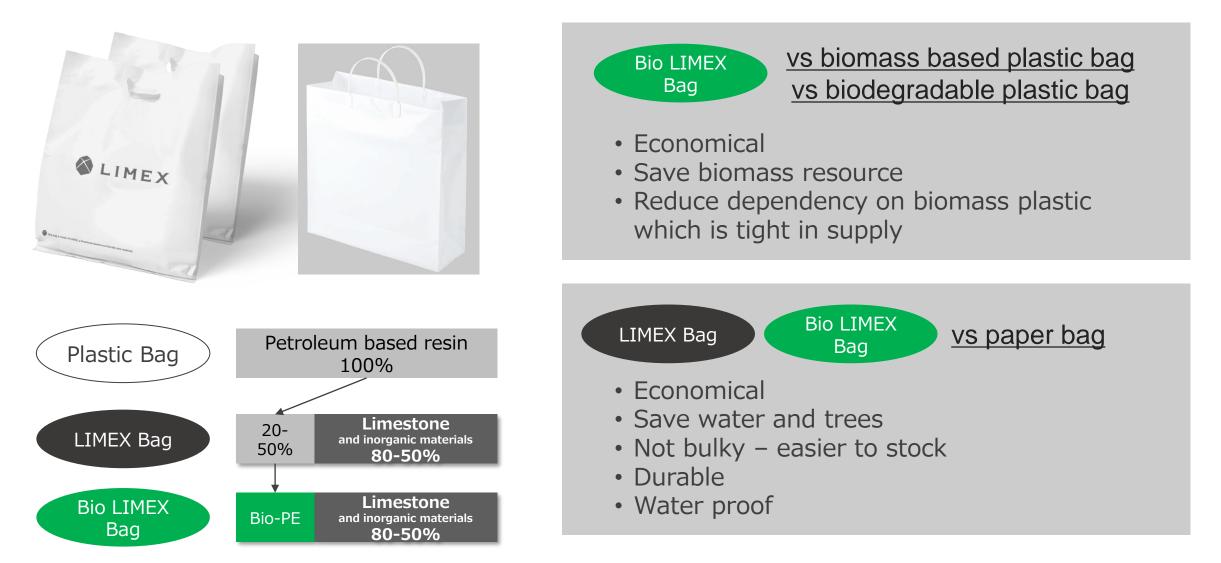
Already used by >4,000 enterprises Save 10 L of water by 1 box (100 pieces)



Paper alternatives



LIMEX Bag



LIMEX Bag Examples (1/2)





- Introduced from March 29th 2020, will be used at all the directly managed store (duty free shops etc.) by the airport by end June
- 462 tons of petroleum based plastic and 1,114 tons of CO2 emissions will be saved annually

LIMEX Bag Examples (2/2)



LIMEX Non-woven fabrics



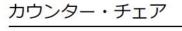
- Less petroleum based plastic
- Less GHG emission
- Upcyclable

Shopping bag of POLA



Lightweight and sturdy display fixtures / POP

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LEDS02-0001 カウンター

LIMEX CECODISS ECODISS LEDS02-0002



LEDS02-0003 スツール



POP etc

LEDS01-0000 観客席用~人型応援POP







LEDS01-0001 援POP テレビ台

LEDS01-0002 エアコン台 LEDS01-0003 すべり台



LIMEX sheets什器・POPの他事例

サイン・ラック



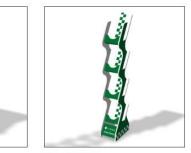
LEDS04-0001 バックパネル



スタンドサイン

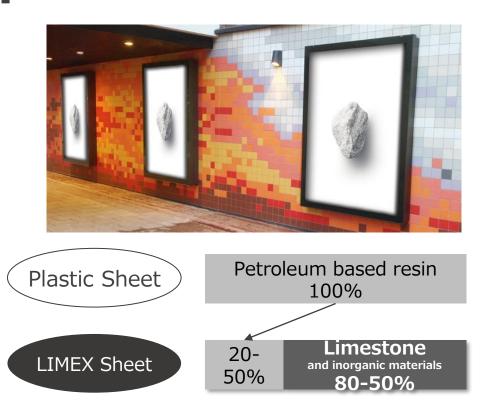
演台

LEDS04-0003 ラック



LEDS04-0004 リーフレットラック

LIMEX Backlit Sheet



- Uniform Surface Emittance
- Less petroleum-based plastic
- Cost Competitive!
- Compatible with various printers

Mos Food Service (Hamburger store chain)



POLA (High end Cosmetic brand)



LIMEX Injection Molding Applications











LIMEX antibacterial mask case

LIMEX antibacterial mask case

(Can be used for multiple purpose ©)





Not only for commercial goods, but also

- novelty item for customer acquisition (as a tool for CRM)
- sales support tool for sales team



*image sample



* This is an image. Please contact us regarding the availability of actual production.



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Let's start The Sustainability Revolution together!

- Thank you -