

## "LimeAir Bag" adopted as a garbage bag for food factory of Warabeya Nichiyo Holdings

~ Reduces costs and cuts plastic by approx. 28% and CO<sub>2</sub> emissions by approx. 22% ~

Tokyo, February 8, 2023 – TBM Co., Ltd. is pleased to announce that LimeAir Bag, a plastic bag containing approx. 25% limestone, has been adopted as a garbage bag for use at the food factory of Warabeya Nichiyo Holdings.

"LimeAir Bag" is lighter than ordinary polyethylene bags. By replacing the polyethylene garbage bags previously used by Warabeya Nichiyo Holdings with "LimeAir Bag," petroleum-based plastics can be reduced by approx. 28% per year and greenhouse gas emissions by approx. 22%\*<sup>1</sup>. TBM will continue to promote LimeAir Bags to food industries and other factories.

\*<sup>1</sup> Estimate value of TBM (raw material procurement ~ incineration disposal). Not a guaranteed value and subject to change depending on manufacturing conditions, etc.

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LimeAir Bag  
adopted for food factory  
garbage bag



### ■ Three features of the LimeAir Bag

#### 1) Reduce petroleum-based plastics

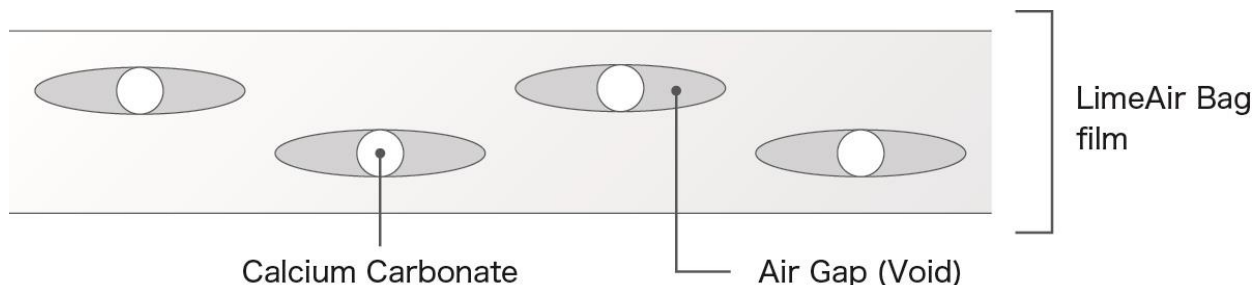
"LimeAir Bag" can reduce the use of petroleum-based plastics by up to 34% compared to polyethylene bags.

#### 2) Reduce greenhouse gas emissions

Compared to polyethylene bags, "LimeAir Bag" can reduce greenhouse gas emissions by up to 29% over its entire life cycle (raw material procurement ~ pellet production ~ molding ~ transportation ~ disposal [incineration]).

### 3) Lightweight with void control technology

By kneading and stretching polyethylene resin and limestone (calcium carbonate), a layer of air (voids) is created around the calcium carbonate grains. By controlling the air voids, LimeAir Bag is up to 10% lighter than polyethylene bags.



### ■ About TBM Co., Ltd.

TBM is a company based in Japan specializing in developing, manufacturing, and distributing LIMEX®, an innovative new material mainly made from limestone and inorganic materials. The basic patents of LIMEX have been registered in 40 countries and have been introduced to over 10,000 companies in Japan. LIMEX is registered in the Sustainable Technology Promotion Platform "STePP" by UNIDO as a recyclable material that can be an alternative to paper and plastic. By supplying and recycling LIMEX, TBM aims to solve plastic waste issues, resource depletion, and various environmental issues.

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