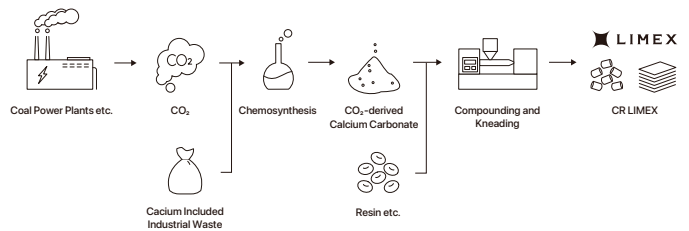




CR LIMEX :

A Material Made from Emitted CO₂

"CR LIMEX" is an innovative and eco-conscious material independently developed by TBM. Its main ingredient is CCU calcium carbonate, which is derived from CO₂ captured from exhaust gases and calcium-containing waste generated by factories. The resin component, used as a secondary material, also incorporates recycled plastic waste from factories. This innovative approach contributes to carbon neutrality, promotes the resource recycling of plastics, and reduces environmental impact compared to conventional virgin plastics.



Emitted CO₂ + Calcium-Containing Factory Waste + Recycled Plastic

Key Features of CR LIMEX

Realizing the fixation of CO₂ derived from exhaust gases



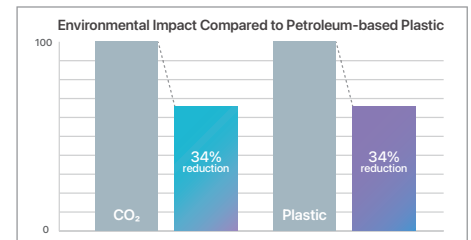
By chemically synthesizing flue gas-derived CO₂ into CCU calcium carbonate, approximately 25% (by weight) of the material consists of CO₂. When used in products, the CO₂ from exhaust gases remains fixed long-term unless incinerated.

Contribution to plastic resource recycling by incorporating recycled plastic



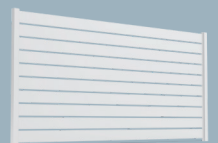
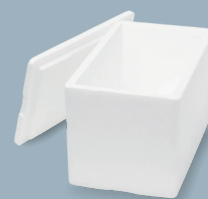
By using recycled plastic from waste as the resin component, CR LIMEX not only promotes effective CO₂ utilization but also supports resource circulation through material recycling of plastics.

Outstanding Environmental Performance



Compared to virgin plastic, this reduces greenhouse gas (GHG) emissions and petroleum-based plastic use by approximately 34% during raw material procurement, pellet production, and incineration, contributing to decarbonization and resource conservation.

Primary Application



T B M

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For More about
CR LIMEX

