

We are looking ahead to
the future of the sea.



Marine Biodegradable Viscose Rayon
e:CORONA™

Daiwabo Rayon Co., Ltd.
Friendly to human health and the earth



USDA Certified Biobased Product

Based on USDA BioPreferred® Program, the certification is granted to the products derived from renewable resources such as agricultural, marine and forestry materials.

Cleared tests for harmful substances

The results of analyses for determining heavy metal content prove that the product does not contain heavy metals subject to regulation that may have adverse effects on the human body.

Cadmium(Cd), Lead(Pb), Mercury(Hg),hexad chrome(CrVI) were not detected.
(Examined according to the RoHS Directive by SGS)

Safety confirmed in the food sector

Several tests and analyses were conducted to verify that the product is safe enough to be used in the food sector as a food contact material.

Compliance with CFR of the FDA, LFGB, Regulation(EC) and BfR Recommendation was confirmed.
(Examined by ISEGA)

Human-friendly material

Caring for effects on human health

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Biodegradable in seawater as well as in soil

Earth-friendly material

Data of marine aerobic biodegradation test

Test Laboratory: OWS

(An expert laboratory for biodegradability testing in Belgium)

Standard followed: ASTM D6691

Test Sample: e:CORONA (powder)

Test Environment: Temperature maintained at 30°C±2°C

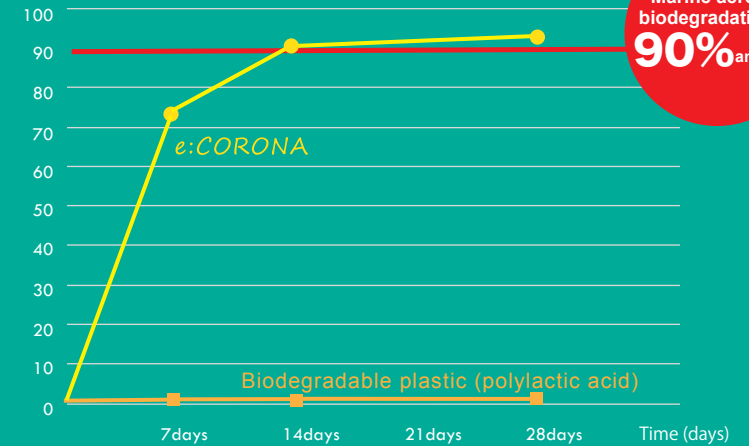
Test Method: Test sample is put into seawater and O₂ consumption and CO₂ production by microorganism are measured.

Biodegradation percentage is determined by CO₂ production.
(O₂ consumption is used as a validity index)

Test Duration: 28 days

Pass/Fail Criteria: The percentage of biodegradation of a test material is at least 90% in total or 90% of the maximum degradation of a reference item (cellulose) within 6 months.

Biodegradation percentage(%)



Marine aerobic biodegradation is **90% and over.**

The source of the data of the biodegradable plastic (polylactic acid):
Microbial Degradation Behavior in Seawater of Polyester Blends Containing Poly (3-hydroxybutyrate-co-hydroxyhexanoate) (PHBHHx), Marine Drugs, 2018, 16(34)

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We contribute to conservation of forests and marine resources through SDGs activities.