
From: Kevin Duffy <kevind@bdfs.net>

Sent: Friday, February 14, 2020 12:31 PM

To: Zarker, Ken (ECY) <kzar461@ECY.WA.GOV>; Rudisill@srcinc.com

Cc: nuding@toxicfreefuture.org

Subject: Earth Shell Compostable packaging with no added PFAS and Not PLA based

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Dear Cathy Rudisill and Ken Zarker

Earth Shell, is a new technology that is starch and cellulose based, that requires no PFAS or added polymers to provide water and grease barrier properties.

Earth Shell, is home, commercial and marine degradable and no PFAS, PLA or petroleum based coating are required.

Earth Shell, patent pending process of extrusion, provide a barrier that will hold out tap water. Earth Shell, will be digestible to microbes and bacteria in marine or compost setting.

Current testing for Earth Shell
anaerobic digestion ASTM 5511 and ASTM 5526
Aerobically ASTM D 6400 (currently -19),
Scope ISO 16929 (disintegration)
ASTM 5338 OECD 208 Phytotoxic.

If there is another test method that you feel will be necessary please let me know.

Earth Shell has preliminary test show all of the degradation test will be meet to ASTM standards and we have submitted Earth Shell to a BPI approved lab for third party verification.

Earth Shell is not a concept but a large commercial blending facility that can has capacity to blend and compound over 10 million pounds per month and additional capacity could be available in 12 months . Far exceeding any expectation of the market that would develop in the state of Washington at this time. Earth Shell material can be extruded on traditional extrusion equipment and formed on traditional thermal forming equipment using standard molds. Earth Shell is available in both clear and foamed. Attached are some simple #3 trays both in clear with a heat laminated clear film and a foamed version #3 tray.

This email is to make sure you are aware of our technology for you evaluation on supply chain and performance.

Happy to send sample

Have a great weekend

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