



**44 Ditton Drive.  
Hamilton, Ontario  
Canada L8W 0A9  
1-416-505-3839**

Response to concerns about using Oil based materials.

**Customer -**

**"I'm still struggling with the fact that the omnideg. uses fossil fuel based plastics".**

We take a naturally occurring product of the earth, oil, turn it into very useful plastics and then allow it to biodegrade into - Water CO<sub>2</sub> and a small amount of Organic Biomass, all beneficial to plant growth or if in the water, fish food.

We are on a mission to spread this around the globe and stop the proliferation of plastics in our oceans.

Over the last 12 years, we have researched all the other technologies available and found all were hiding problems or consequences to the environment. Over 5 years we did testing and found flaws in them all. PLA for example, uses 50% more energy than regular plastics (Scientific American Mag. August, 2000 ) due to the fact that someone has to grow the corn with tractors and diesel fuel, then ship it maybe 1000 miles away by diesel truck to a processing plant using more energy. This is not mentioned in their advertising.

PLA uses about 100 tons of corn to make 1 ton of plastic. The chemicals, Nitrogen, Pesticides, etc all go down to the ocean to kill off oxygen and fish and plants. A 10,000 sq km dead zone is created off the shores of any major growing area each year. At least 45 % of US corn is used for industrial purposes rather than feeding starving people around the world.

Cellophane - we made pouches out of this new improved cello and within 10 minutes in my car in the summer, they all shriveled into golf balls.

PLA and Cello are both certified "compostable" by the BPI (Biodegradable Products Institute) which was founded by none other than Cargill ( PLA Inventor ) and Innovia ( Cellophane producer ) The first Director of the BPI was a Cargill executive, so **they are certifying themselves.**

Major Municipal Waste Facilities, all complain about PLA products - they do not decompose in the 8 weeks they require, it's usually a year or more which means they have to be separated out of the compost and taken to a landfill miles away, where nothing will happen to it.

Oxo-Bio - needs 6 hrs of direct sun to start the degradation process. Bags are made, filled, sent to stores, brought home, then goes to the garbage bins. No sunlight. The scientist who invented this told me to ask customers to hang their bags on a clothes - line for a day. He was joking. it actually only breaks down into micro-beads. This ends up in the food chain.

We have the only technology that allows our products to biodegrade or decompose anywhere there are microbes. The others all have specific conditions, PLA being the worst. We have independent lab proof that all our products work as we say. Two university studies confirm this as well. It is completely safe in soil, or oceans.

We are selling this all over the world now. mostly to coffee people who were highly skeptical at first but finally realized we were the "only viable option".



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**Thank you for being so thorough in reply. I've seen the bags used by others and had to be skeptical myself. This helps me with a depth of understanding and gets me past the "barrier" of supporting plastics at all. It is very interesting reading.**

**Thanks again for taking the time to address my deeper concerns on Omni.**

**Best regards,  
Adam**