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## 8 August 2017

Much of the plastic we use consists of the packaging of food products. This singe-use plastic is thrown away, only to add to the growing piles of plastic in our landfills. In an attempt to reduce the amount of waste from packaging material, designer Felix **Pöttinger created** biodegradable packaging material called POC, which is made from seagrass fibres. In addition to reducing the amount of plastic used,

the antibacterial properties of seagrass, the packaging could also increase shelf life.

The seagrass that is used is a waste material, which can be collected on the beaches of the Mediterranean, where it washes on shore. Instead of throwing it away, as commonly happens when governments clean up the beaches, the fibres can be used to make the packaging material.



To create the pack aging material, a binder is extracted from the seagrass fibres, which is mixed with the intact fibres. The mass is then pressed into a metal mould and baked at 180 degrees Celsius (356 degrees Fahrenheit) until it has completely dried. POC is completely biodegradable, as even the binder is made of seagrass. In addition to being biobased and biodegradable, seagrass has antibacterial properties, which can help extend the shelf life of food products.	The material tested in varie independent labs for its an and structura However, it is development has to be test all EU regulat packaging. With a global of 1.3 billion t billion US ton million tonne tons) of food plastic, we de alternative pa materials. For packaging at click here. Photos: Felix Pör	materials tibacterial l properties. s still in the stage and ed if it fulfils ions for food food waste onnes (1.4 us) and 15 s (16.5 US related finitely need ckaging more Materia,	Events Sign in	Brands Join now
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