

Sphera

Eco-friendly materials with a low carbon footprint



Our commitment

Our eco-friendly materials are designed in France (Brittany) to reduce the environmental impact of your products. We incorporate post-industrial and post-consumer co-products, thereby promoting the circular economy and limiting our carbon footprint. This approach guarantees sustainable solutions without compromising the mechanical properties of the materials.



Reduced carbon footprint

Recycling of organic, mineral, and industrial waste to optimize resources.



Recyclability

Our materials are 100% recyclable, contributing to an eco-friendly approach.



Visual identity

The use of co-products gives your finished product an aesthetic appearance and mechanical properties.

Shells & seashells



Reduced carbon footprint



100% recyclable



Visual identity



Rigidity

Young Modulus ≈ 1800 MPa



Oyster shells



Mussel shells



Scallops



**Oyster shells, scallop shells,
and mussel shells**



Eggshells

Looking for a customized solution?

- **Materials** : Recycled PP- PP Mass balance - Recycled PE- Bio PE.
- **Particle size distribution**: variable depending on the desired visual appearance and mechanical properties.
- **Load factor**: 5 to 50% - Recyclability with a mineral content of up to 15%.
- **Process** : injection - stability up to 300°C.

Plant fibers



Reduced carbon footprint



100% recyclable



Visual identity



Rigidity

Young Modulus > 2000 MPa*



Flax fiber



Jute fiber



Coconut fiber



Sisal fiber



Vine shoot



Reed fiber



Hemp shives fiber

Looking for a customized solution?

- **Materials** : Recycled PP - PP Mass balance - recycled PE - Bio PE
- **Particle size distribution**: variable depending on the desired visual appearance and mechanical properties
- **Load factor**: 5 to 30%
- **Process** : injection (do not exceed 200°C)

* Rigidity > 3000 MPa for biocomposites loaded with 30% jute and flax fibers.

Loop & co



Reduced carbon footprint



100% recyclable



Visual identity



Shredded banknotes



Shredded banknotes



Fishing net



Jeans fibers



Wheat bran



Cork



Coffee grounds

Looking for a customized solution?

- **Materials** : Recycled PP - PP Mass balance - Recycled PE - Bio PE
- **Particle size distribution**: variable depending on the desired visual appearance and mechanical properties
- **Load factor** : 5 à 30%
- **Process**: injection molding - extrusion (do not exceed 200°C)

References

Shells & seashells

Rate 15%	Type of expenses	Base
LX102231	Oyster shells	PP
LX102229	Mussel shells	PP
LX102232	Scallops	PP
LX102443	Iodized mix: oyster shells, scallop shells, and mussel shells	PP
LX102160	Eggshells	PP

Plant fibers

Rate 15%	Rate 30%	Fiber type	Base
LX102298	LX102311	Flax fiber	PP
LX102299	LX102312	Jute fiber	PP
LX102296	/	Coconut fiber	PP
LX102348	LX102349	Sisal fiber	PP
LX102451	LX102442	Vine shoot	PP
LX102200	LX102420*	Reed fiber	PP
LX102247	LX102246*	Hemp fiber Hemp	PP

* Maximum rate 25%

Loop & co: post-industrial and post-consumer co-products

	Type of co-products	Co-product rates	Base
LX102030	Shreds of green banknotes	10%	PP
LX102032	Shreds of white banknotes	10%	PP
LX102268	Fishing net	10%	PP
LX102347	Denim fiber	5%	PP
LX102421	Wheat bran	20%	PP
LX102244	Cork	25%	PP
LX102234	Coffee grounds	30%	PP

Looking for a customized solution?

- **Materials:** Recycled PP - PP Mass balance - recycled PE - Bio PE
- **Particle size distribution :** Variable depending on the desired visual appearance and mechanical properties
- **Surface aspect required :** Variable - depending on the surface aspect and mechanicals properties required