



We are developing technologies to produce renewable chemical that create a sustainable value chain for a low carbon bioeconomy.

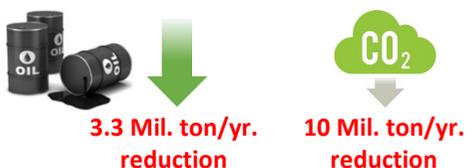
Our Vision

The global leader in biomass conversion technology

Our Mission

Our mission is to contribute to reducing greenhouse gas emissions in plastic production and support sustainable development

Our Goal



We contribute to the UN's **Sustainable Development Goals (SDGs)**.

Lignum is proud that our sustainable technology can contribute to accomplishing the following goals.



2: We produce Biofiller from non-food biomass.



11: Our innovative technology makes biorefinery industry commercially viable, creating job opportunities.



13: We do not emit greenhouse gas because our feedstock is produced by photosynthesis.



14, 15: Our eco-friendly technology contributes to making our planet clean by converting lignocellulosic biomass into biodegradable products.



Lignum technology contributes to the UN's sustainable development goals



www.lignum.co.kr



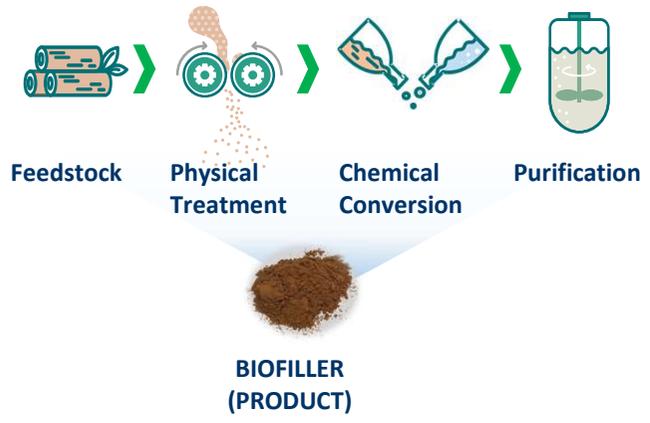
Lignum produces high-performing bioplastic materials.





TECHNOLOGY

1. PROCESS



Our innovative technology converts lignocellulosic biomass into Biofiller by two core processes. The physical treatment makes our product more uniform in particle shape. Our product becomes more compatible with traditional plastics by chemical conversion.

2. SUPERIORITY



PROVEN TECHNOLOGY

We have applied Biofiller to a commercial vehicle



LIGHTWEIGHT

Biofiller makes your plastics more lightweight



PRICE COMPETITIVENESS

Biofiller is much cheaper than other bioplastic materials



ECO-FRIENDLY

Biofiller is produced from non-food biomass



VERSATILE APPLICATION

Biofiller can be applied to various plastic products



PRODUCT

1. BIOFILLER FOR BIOCOMPOSITE RESINS



Biofiller was designed to allow manufacturers to make **lightweight plastics**. Biofiller shows excellent dispersion, MI, and surface properties in the processes of extrusion and injection.

PROPERTY	UNIT	VALUE
SPECIFIC GRAVITY	-	1.2
BULK DENSITY	g/cm ³	0.3~0.4
PARTICLE SIZE	μm	<20
MOISTURE CONTENT	%	<5
BIOCARBON CONTENT*	%	97±3% (108.79 pMC)

* ASTM D6866-16

2. BIOCOMPOSITE FOR PLASTIC EXTRUSION AND INJECTION MOLDING



We can develop and supply various Biocomposite products containing Biofiller to meet customer's needs.



APPLICATION

1. AUTOMOBILE



Tailgate for SSANGYONG MOTOR



Junction Box Cover for HYUNDAI/KIA MOTOR

Lightweight tailgates containing Biofiller have already been applying to TIVOLI vehicles since September 2019.

2. OTHER APPLICATIONS

