

trifilen Why We Exist

Consumers asking for sustainable products

One in three consumers choose brands based on sustainability - 2017 Unilever study

Everyone wants lightweight

Hemp biocomposites combine stiffness with low density enabling lightweight parts

Brands want greener practical solutions, today

We can help! More bio-content, recyclable, ready for standard moulding equipment







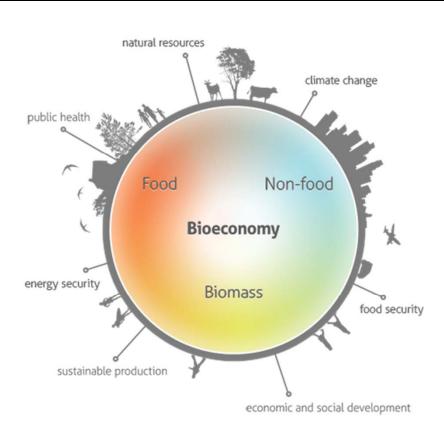
The linear economic model





The circular bioeconomy

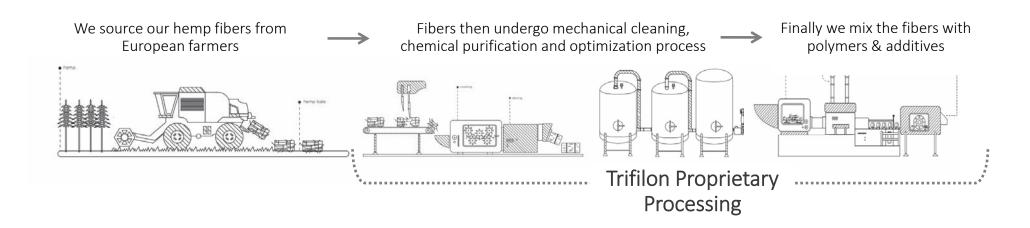






How We Do It

We supply lightweight biocomposites for injection molding. We call it $\mathbf{BioLite}^{\mathsf{TM}}$



www.trifilon.com





Creating a quiet ride

Sound Absorption

- Good sound reduction
- High bio-content
- Mouldable into complex shapes

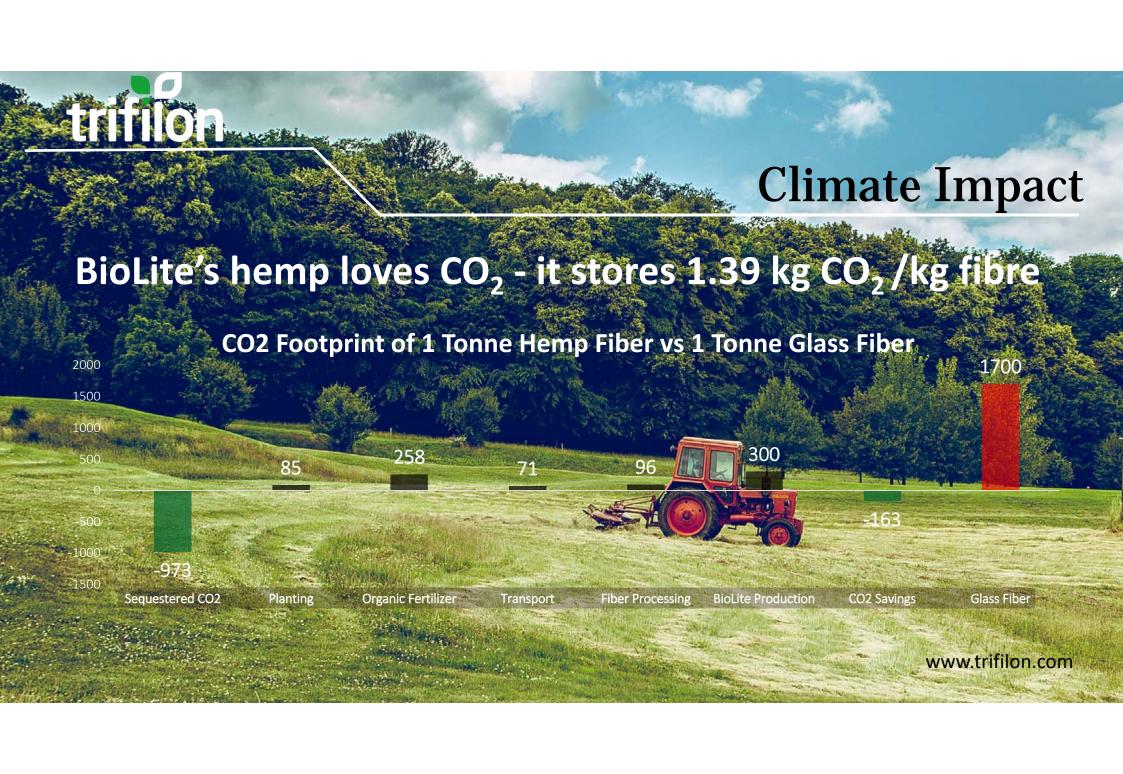
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Everyone wants lightweight

Press it

- Reuse existing sound paneling
- Cut weight vs injection molded parts





Bioplastics vs Biocomposites

BioLite doesn't compete with food

Unlike most bioplastic feedstocks, our hemp is a rotational crop that enhances agricultural production and does not compete with food production

Consumers can see the fibers

We make it easier for designers, product developers and brands to show the sustainability of their plastic products





BioLiteTM AP21

Key Features

- Suitable for applications requiring good stiffness as well as impact properties
- Good flow properties
- Low density enables lightweight components

Physical Properties

	METHOD	VALUES	UNITS
Density	ISO 1183	1,001	g/cc
Melt Flow Rate (190°C / 2,16kg)	ISO 1133	11,7	g/10 min
Tensile Modulus	ISO 527-2	1550	MPa
Tensile Stress at Yield	ISO 527-2	24	MPa
Tensile Strain at Yield	ISO 527-2	13	%
Heat Deflection Temperature A	ISO 75-2/A	44	°C
Heat Deflection Temperature B	ISO 75-2/B	94	°C
Charpy Impact Strength Notched (-20 °C)	ISO 179/1eU	4,1	kJ/m²
Charpy Impact Strength Notched (20 °C)	ISO 179/1eU	13,0	kJ/m²



BioLiteTM AP23

Key Features

- Relatively high specific strength
- Good dimensional stability

- Very low abrasion
- Fast cycle time and good flow properties

Physical Properties

	METHOD	VALUES	UNITS
Density	ISO 1183	1,101	g/cc
Melt Flow Rate (190°C / 2,16kg)	ISO 1133	5,4	g/10 min
Tensile Modulus	ISO 527-2	3014	MPa
Tensile Stress at Yield	ISO 527-2	39	MPa
Tensile Strain at Yield	ISO 527-2	5	%
Heat Deflection Temperature A	ISO 75-2/A	57	°C
Heat Deflection Temperature B	ISO 75-2/B	100	°C
Charpy Impact Strength Notched (-20 °C)	ISO 179/1eU	2,6	kJ/m²
Charpy Impact Strength Notched (20 °C)	ISO 179/1eU	9	kJ/m²



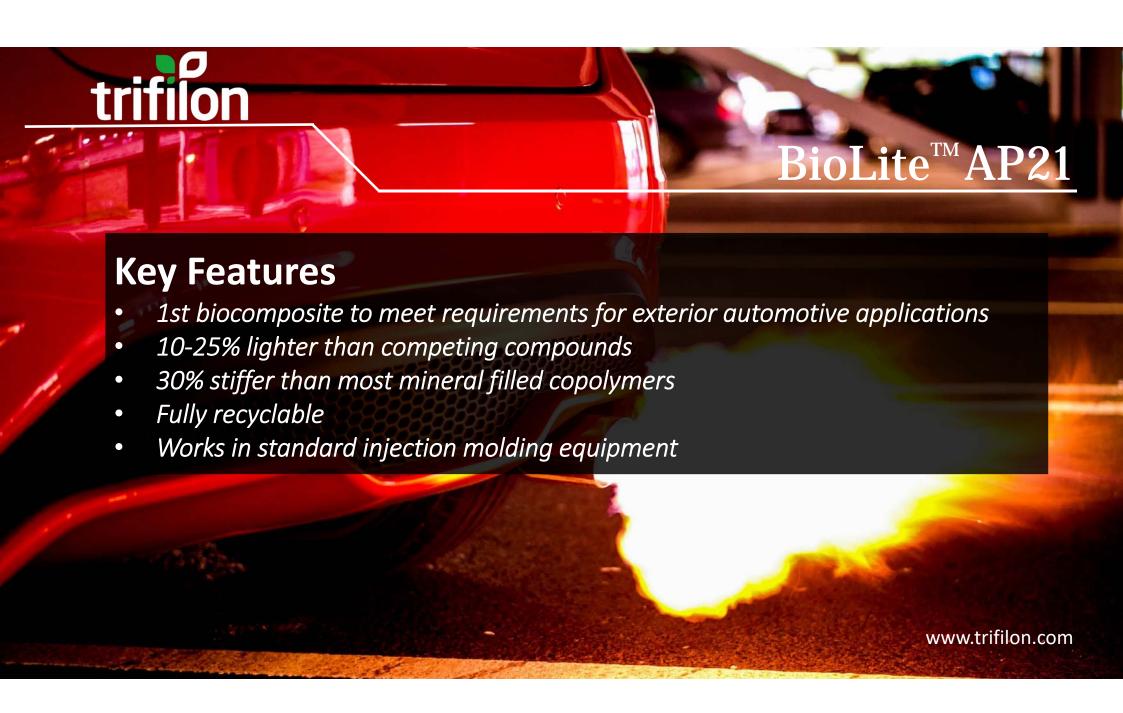


EPIC PhantomBio is born

Göteborg based EPIC Travel Gear knew that its eco-minded customers wanted something different. Working closely with EPIC, Trifilon quickly developed and tested a new high impact biocomposite specifically designed for the tough demands of today's travel gear.

The bar is raised and new records set

The PhantomBio received the most pre-orders EPIC had ever experienced. Customer demand has meant a 12x increase on EPIC's original sales estimates.





It's all about economy





Local Capacity

Based in Nyköping, the heart of Sörmland

Located just 1 hour south of Stockholm, our Nyköping factory is close to major road, train and airport transportation

Growing capacity

As of Feb 2018, we have 400 Tonnes / year capacity
Aim to grow to +4.000 Tonnes / year capacity by end of 2018
Targeting 20.000 Tonnes / year capacity by 2022

