Our vision

To build partnerships that drive good business through sustainability

SHARK® SOLUTIONS

Partner with the global market leader in advanced sustainable PVB products

An innovative pioneer

We transform laminated glass into advanced, sustainable PVB raw materials.

A reliable partner

Present in the EU and US we source a reliable, steady supply of laminated glass to ensure a consistent supply of PVB raw materials.

Sustainable, high quality PVB

Our PVB is a non-toxic, sustainable and price competitive alternative to PVC, SBR Latex, Styrene Acrylics, Epoxy and other less sustainable materials.

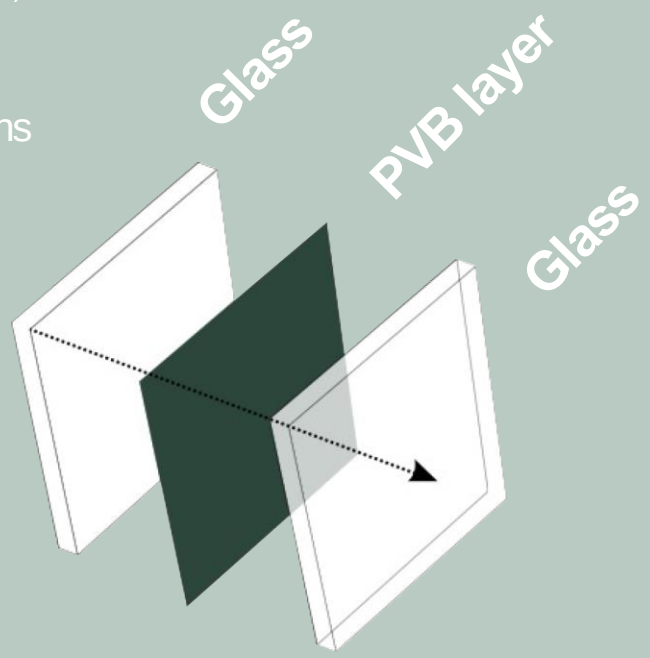
SHARK® SOLUTIONS


Leading brands are already steering the ship towards a more sustainable future when it comes to plastics
P&G
CISCO
adidas
NIKE
SIBELCO
IKEA
Tarkett
SHARK SOLUTIONS

There is an invisible layer of PVB resin inside every windshield

This is essential as it provides safety during accidents. Unfortunately, the windshields are simply dumped in landfill once they are broken, where it takes almost **a million years to decompose.**

Laminated glass from a lot of the construction industry also contains PVB.



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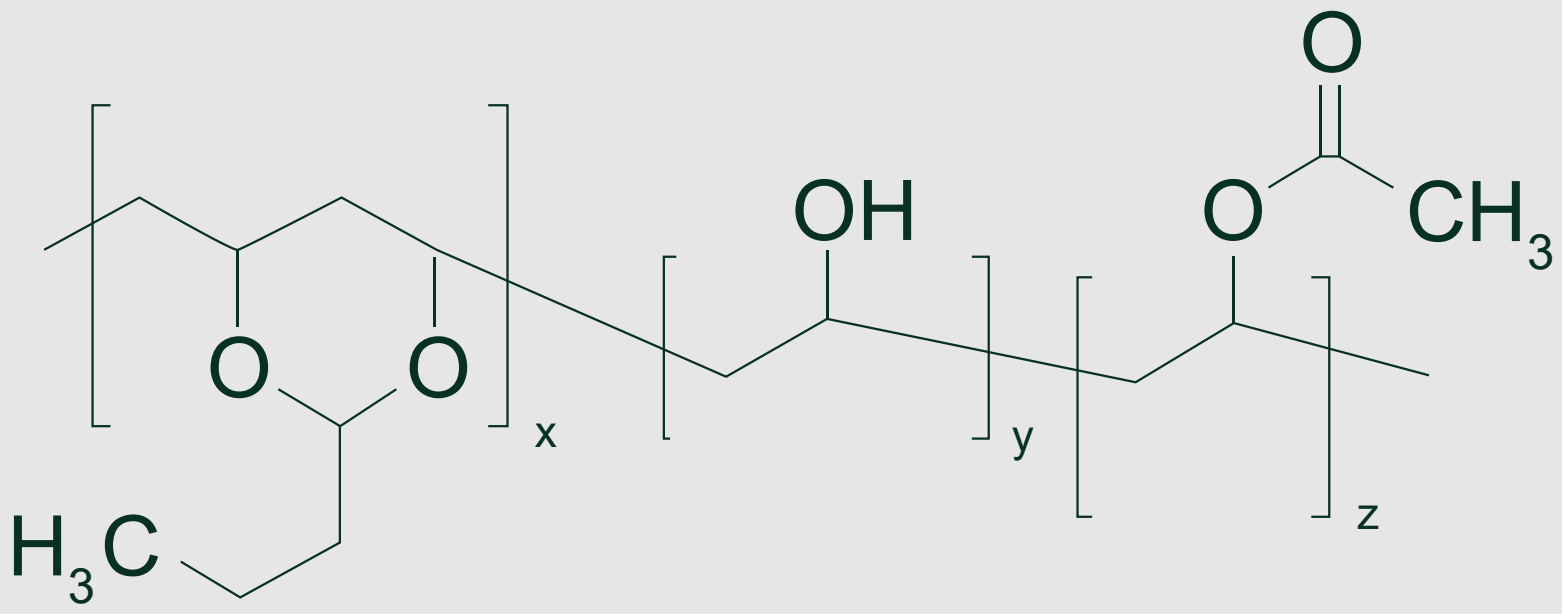
What is PVB

(PolyVinyl Butyral)



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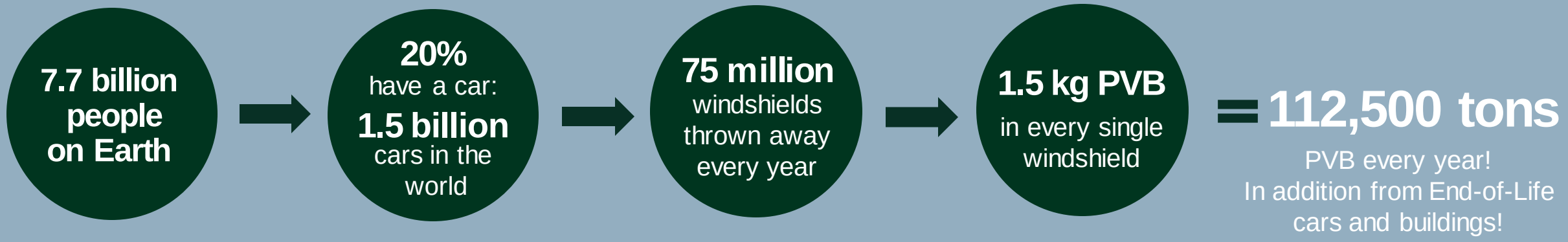
Every year these rich PVB resources are sent straight to landfill!



… The question is how to harness all this potential?

SHARK® SOLUTIONS

Shark Solutions has cracked the code of reliable laminated glass and PVB supply!

01
Car windshields
& laminated building glass

02
Glass recycling

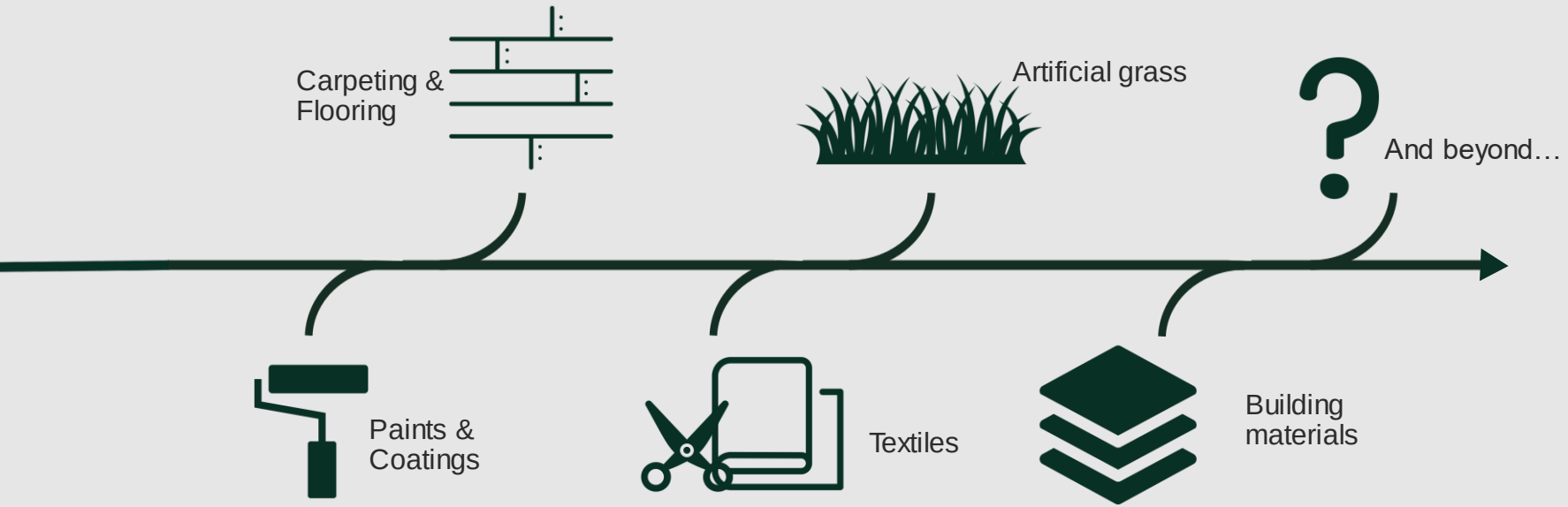
03
Separation

04
Cleaning

05
Dispersion & pellets

SHARK® SOLUTIONS

From here the application possibilities are limitless!



SHARK® SOLUTIONS

Every year we deliver for our customers & the environment

10 million

car windshields recycled

14,000

tons recycled PVB processed in 2019

58,000

tons CO_2 saved

SHARK® SOLUTIONS

Our network has gone global

Headquarters & R&D

Roskilde, Denmark

PVB dispersion operations

Overpelt, Belgium

Glass & PVB operations

Lavonia, GA, USA
Victorville, CA, USA

Sales agents & distributors

Europe, North America & Asia

SHARK® SOLUTIONS

Through innovation & a head for business we have become the global market leader

2008
Established production plant in Denmark.

2010
EU Environmental Award.

2005
Foundation of Shark Solutions.

2009
Saint Gobain Award for most visionary environmental company.

SHARK® SOLUTIONS

Through innovation & a head for business we have become the global market leader

2012
New glass recycling plant in the US.
World Trade Award in sustainability.

2017
PVB processing established in Georgia, US.

2011
New PVB plant in Belgium.

2013
ISO 9001 certified.

2019
Glass recycling plant established in California, US.
State of California GHG Reduction Grant recipient.
Part of the UN's Sustainable Development Program.

SHARK® SOLUTIONS

And the journey has just begun…

…with a solid financial base backed by Blue Equity and Circularity Capital

- Danish Private Equity firm, Blue Equity, invests in strong companies that benefit from global mega-trends
- UK Private Equity firm, Circularity Capital, invests in SMEs operating in the circular economy
- Blue Equity investments comes from leading Danish companies including:

SHARK® SOLUTIONS

LEGO PFA Danfoss LINAK

We offer great value for our partners through:

Consistently clean PVB

Ready-to-use non-chloride, low VOC based PVB raw materials with equal or enhanced technical properties compared to other virgin raw materials.

Competitive price

Our prices compete with alternatives including; PVC, SBR Latex, Styrene Acrylics and Epoxy.

Excellent service level

We always go the extra mile for our partners, often customizing raw PVB materials according to requirements and have a reputation as a supportive, reliable partner.

Technical expertise & know-how

We have the technological advantage of being the first mover and owning the IP – we have expertise that no-one else has.

Global presence & plentiful supply

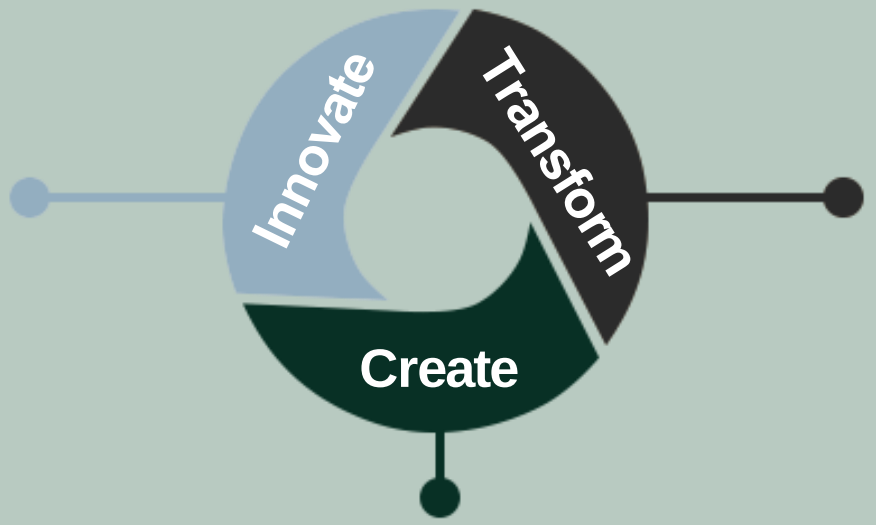
We have a presence in the US & EU that means we have a readily available supply of laminated glass, which we can convert into PVB.

SHARK® SOLUTIONS

Our mission

Transform, create and innovate possibilities for the applications of recycled PVB worldwide

Innovate – Applications of recycled PVB raw materials



Transform – The laminated glass waste stream

Create – Sustainable recycled PVB raw materials

SHARK® SOLUTIONS

The existing chemical binders used in a wide array of industries are far from sustainable

	Styrene Acrylics	Poly-Urethane	Epoxy	EVA latex	SBR xSBR emulsion	PVC plastisol	TPU
Sustainably sourced?	⊘	⊘	⊘	⊘	⊘	⊘	⊘
Non-toxic?	⊘	⊘	⊘	✓	⊘	⊘	⊘
Recyclable?	⊘	⊘	⊘	⊘	⊘	⊘	⊘
Meets future standards?	⊘	⊘	⊘	⊘	⊘	⊘	⊘
Backed by consumers?	⊘	⊘	⊘	⊘	⊘	⊘	⊘

SHARK® SOLUTIONS

We provide a price competitive, sustainable, alternative with superior technical properties

	Styrene Acrylics	Poly-Urethane	Epoxy	EVA latex	SBR XSBR emulsion	PVC plastisol	TPU	Shark Solutions PVB	The reason why
Sustainably sourced?	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓	Reuses laminated glass that would go to landfill
Non-toxic?	⊘	⊘	⊘	✓	⊘	⊘	⊘	✓	Non-toxic, reduced VOCs - no chlorine or phthalates
Recyclable?	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓	Fully recyclable after use to re-enter the circular economy
Meets future standards?	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓	Lives up to the future standards of the industry
Backed by consumers?	⊘	⊘	⊘	⊘	⊘	⊘	⊘	✓	Backed by consumer trends towards more sustainable products

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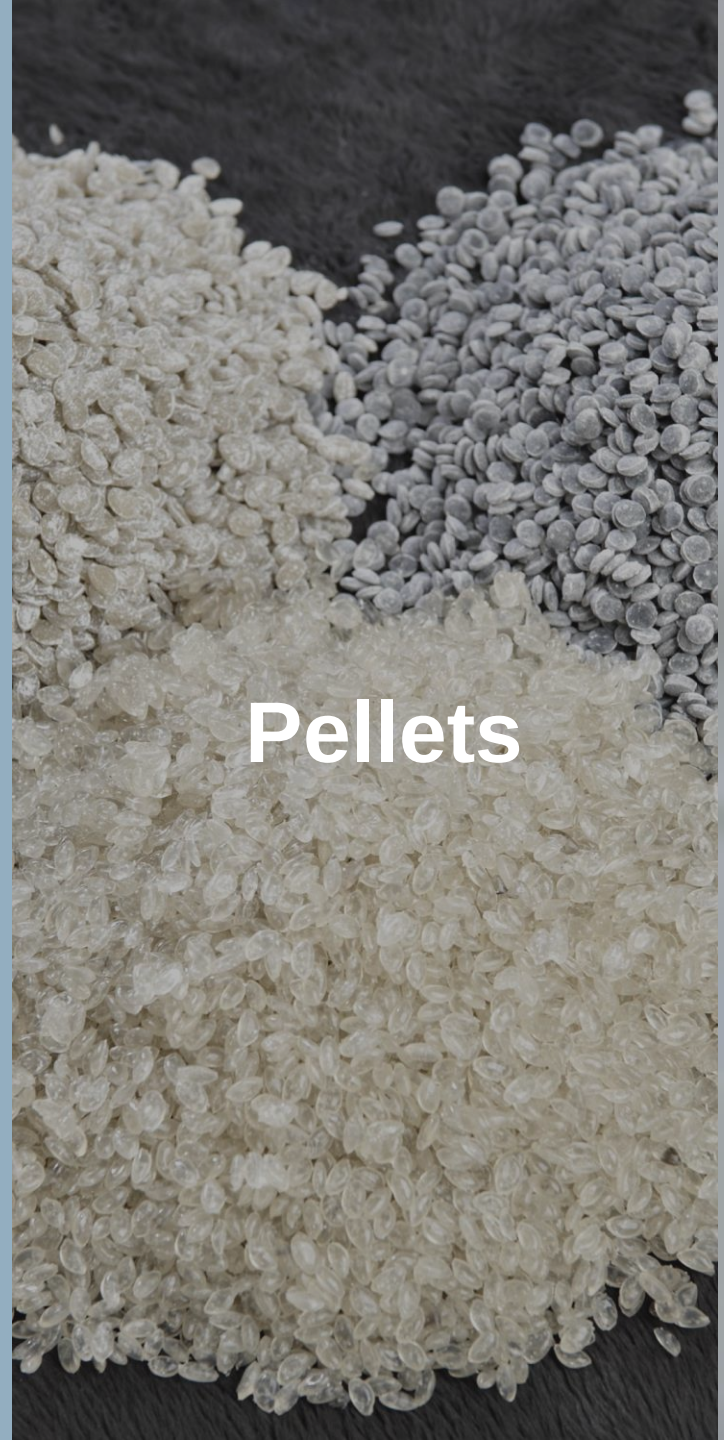
Available Forms of rPVB



Pellets

Dispersion

SHARK® SOLUTIONS

SharkDispersions – Water Based

No VOC, low CO_2, no biocide, ~0,3 µm particle size

Basic types

SharkDispersionMW2™
Standard Dispersion

SharkDispersionSX2™
Stabilized Dispersion

SharkDispersionFX2™ and FX6™
Cross linking Dispersions for better adhesion to surfaces and better abrasion resistance

SHARK® SOLUTIONS

SharkPellets – Standard

Basic types

SharkPelletsC2c™:
Post consumer based

SharkPelletsC4c™:
Post industrial based, coloured

SharkPelletsC5c™:
Post industrial based, clear

SHARK® SOLUTIONS

The advantages & applications of recycled PVB are multiple

Environmentally

- Less than 10% CO_2 footprint of virgin PVB
- Reduced carbon footprint
- Cradle to cradle benefits

Financially

- Competitive with traditional binders
- More filler can be used - saving costs
- Increased marketing opportunities
- Existing materials are subject to fluctuations in oil prices

Technically

- Incredibly strong binder
- Adhesion to various surfaces
- Extreme toughness and flexibility
- Sound absorbing
- Ready-to-use & customizable
- UV resistance

Healthwise

- Non-toxic
- Low VOCs
- Meets future industry health standards

SHARK® SOLUTIONS

Looking forward finding mutual and sustainable business opportunities

SHARK® SOLUTIONS