

The logo for Romani, featuring the word "Romani" in a bold, white, stylized font with a purple outline, set against a yellow oval background with a purple border.

Romani



Romani Innovation Pvt. Ltd.

LAXMI POLYMERS

***A Windshield and PVB
recycling Company, working
towards Circular Economy***

www.windshield-pvb-recycling.com

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Team

- 1. Team of 75 peoples.**
- 2. Sharvan Sharma Executive Director in Company**
- 3. Roma Rathi Director in Company**
- 4. Anil Rathi Managing Director in Company**

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Company History

- 1. 2004- Started EVA Compound manufacturing.**
- 2. 2006- Eva/ Beach Sandal manufacturing.**
- 3. 2009 Recycling of Rubber and Plastic .**
- 4. 2014 Recycling of Windshield/Laminated Glass also.**
- 5. 2015 PVB Scrap Compounding**
- 6. 2017 Car mats from PVB Scrap**

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Windshield/Laminated Glass

About 10% car windshield get damaged every year another we get big quantity after a vehicle complete its life cycle.



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Windshield Recycling Challenge

- 1. Separation Technology**
- 2. Machine Investment**
- 3. Running Cost**
- 4. Quality of Glass Cullet**
- 5. Quality of PVB Scrap**
- 6. Final Uses of PVB Scrap**

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Windshield Recycling Machine Designed by our self



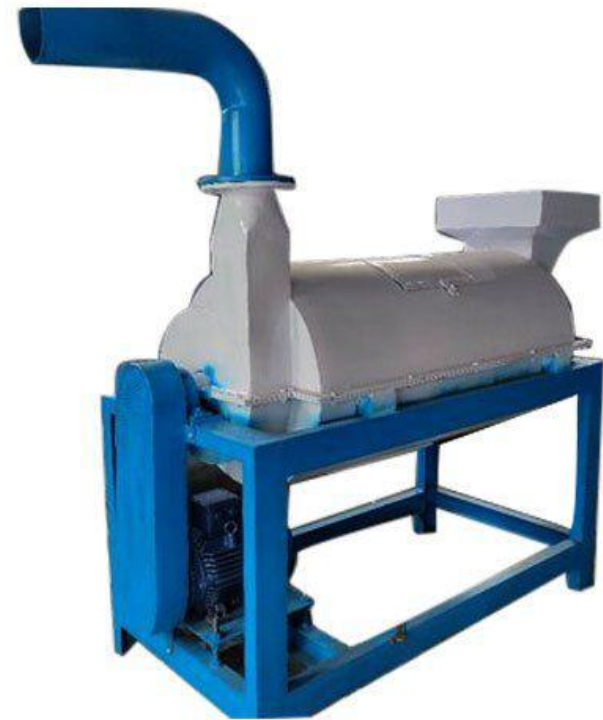
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PVB Cleaning Machine Designed by our self



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PVB Compounding/Pelletizing Plant



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Car foot Mats Manufacturing Plant



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Today Status of Company

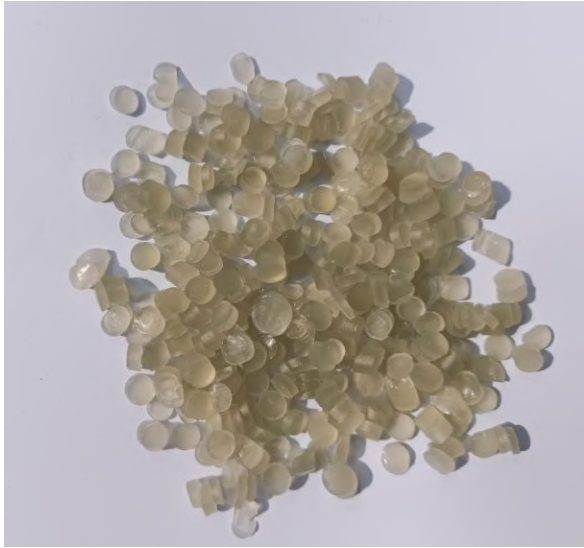
- 1. Windshield Recycling-** Total capacity 500 Tons/month of Windshield recycling our own and 1000 tons/month at different location of India.
- 2. PVB compounding :-** 2 compounding line in Bahadurgarh Haryana having capacity to handle 200 tons/ month PVB scrap. Mostly sale to shoe manufacturer.
- 3. Car Mats:-** 500 tons Injection Molding Machine in Bahadurgarh to manufacturer 4000 mats each month.
- 4. Weather resistance coat:-** Lab trial plant of 1000 ltrs per day capacity is installed .

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Recycled PVB Granules Successful Application



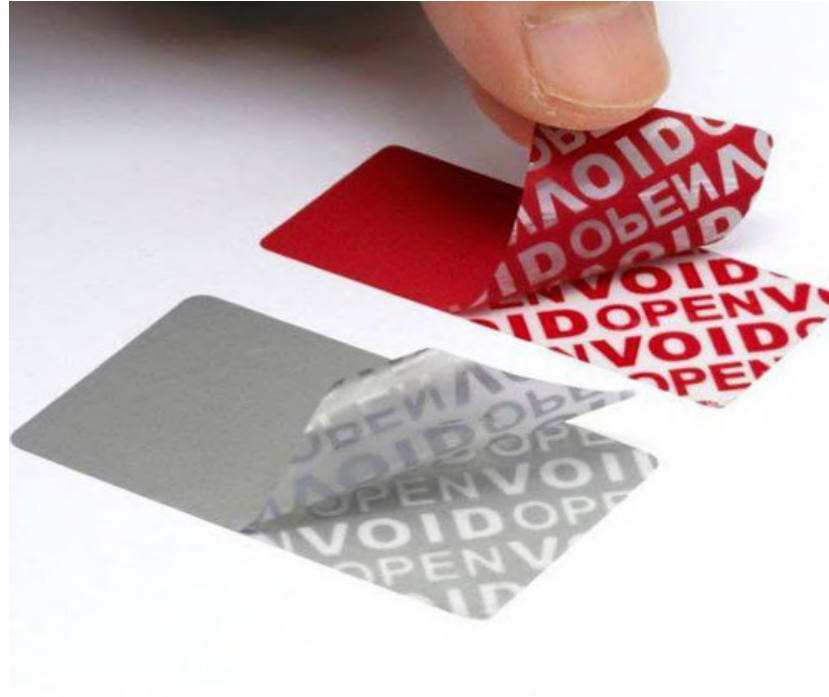
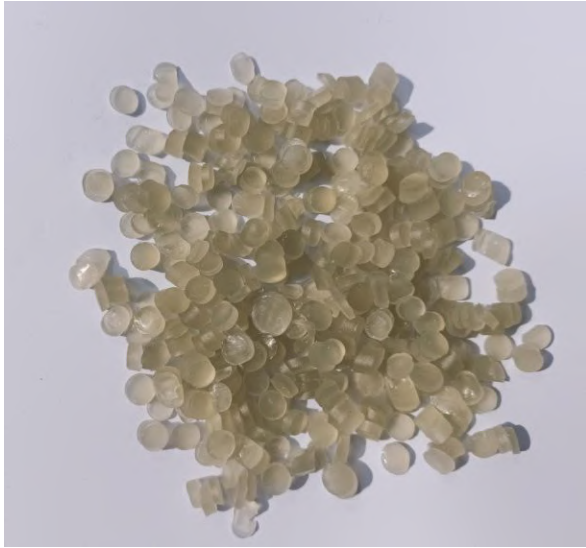
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Recycled PVB Granules recent successful development



In Temper Evident Sticker as PVB polymer replacement in ink manufacturing

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Recycled PVB partial successful projects



Car foot mat

Reasons of Partial Acceptance

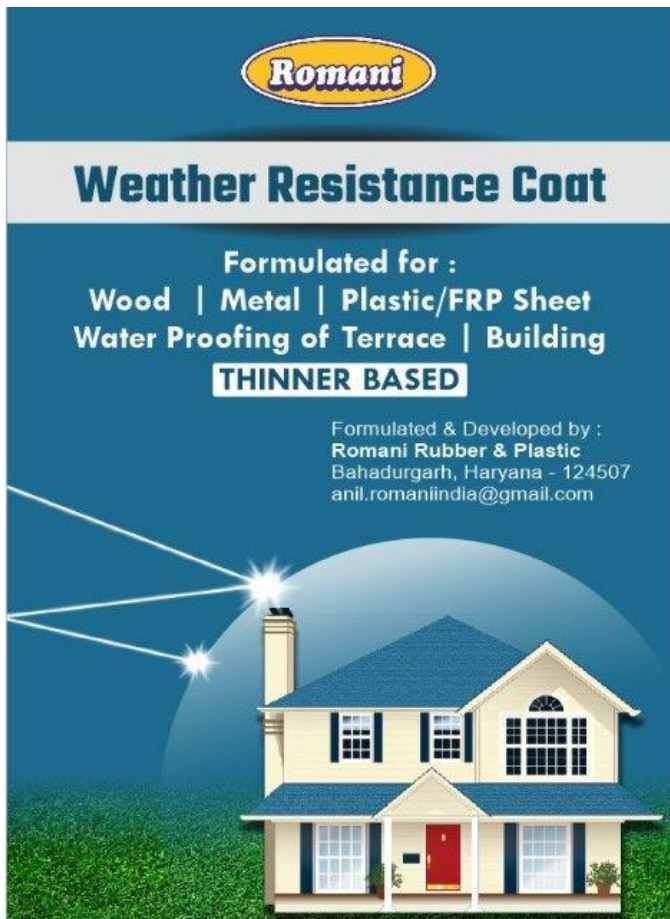
1. PVB get hard at temperature less then 5 degree Centigrade
2. Plasticizer smell
3. Frequent Change of car model



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Recycled PVB partial successful projects



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Weather Resistance Coat

Formulated for :
Wood | Metal | Plastic/FRP Sheet
Water Proofing of Terrace | Building
THINNER BASED

Formulated & Developed by :
Romani Rubber & Plastic
Bahadurgarh, Haryana - 124507
anil.romaniindia@gmail.com

The advertisement features a blue background with a white house illustration at the bottom. Three white spotlights illuminate the house from the left. The Romani logo is at the top left, and the product name is in a white box. The text is in white and yellow.

Reasons of Partial Acceptance

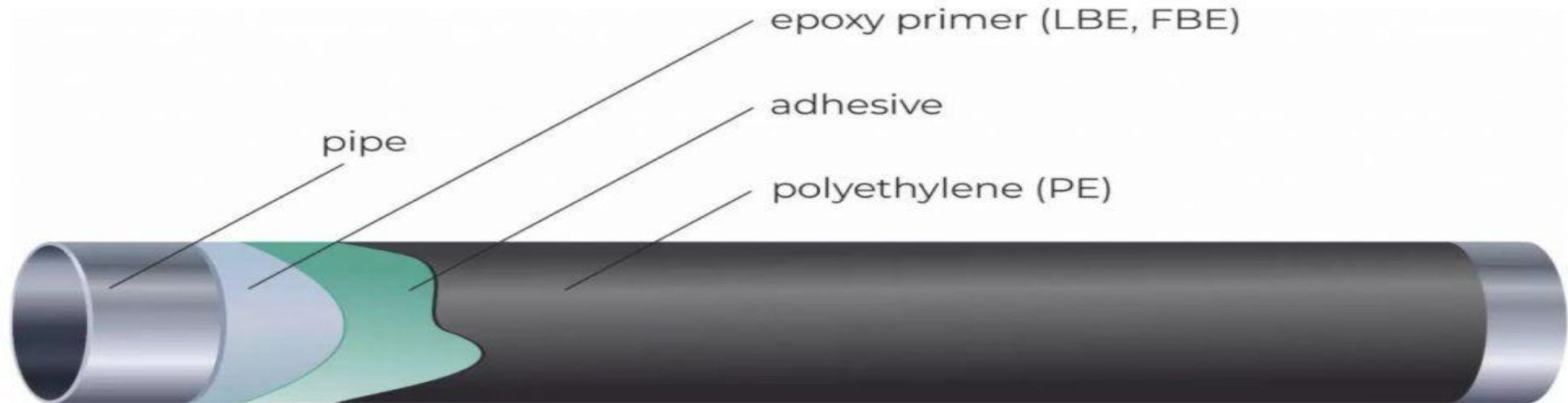
- 1. Competition with Big brand**
- 2. Solvent/ Methanol Based**
- 3. Need more investment for development**

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Recycled PVB targeted Applications



**PVB + Epoxy Blend used as coating on pipe
and car chassis**

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Epoxy role in PVB Recycling

- 1. Epoxy crosslink recycled PVB film and improve its weather resistance property**
- 2. Different grades of Epoxy improve the Flexibility of recycled PVB film.**
- 3. Epoxy improve the adhesion property of recycled PVB film.**
- 4. Epoxy and PVB manufacturing company should come together to develop different grades of Epoxy for using Recycled PVB in different applications .**



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Recycled PVB+ Epoxy based Cow-mat and Rubber Flooring



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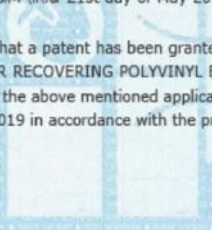


How we can use PVB film Scrap again in making PVB film

1. Removing fine Glass powder
2. Using some special chemical to wash the scrap which don't deteriorate the quality of PVB film scrap.
3. Developing a special grade of PVB film by blending PVB scrap with virgin polymer and other ingredient.
4. As per me we can make a special grade and can be used for lamination of Building Glass.

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 INTELLECTUAL PROPERTY INDIA PATENTS DESIGNS TRADE MARKS GEOGRAPHICAL INDICATIONS	 भारत सरकार GOVERNMENT OF INDIA पेटेंट कार्यालय THE PATENT OFFICE पेटेंट प्रमाणपत्र PATENT CERTIFICATE (Rule 74 Of The Patents Rules)	क्रमांक : 011126068 SL No :
		
पेटेंट सं. / Patent No.	:	345271
आवेदन सं. / Application No.	:	201811020028
फाइल करने की तारीख / Date of Filing	:	21/05/2019
पेटेटी / Patentee	:	ROMANI INNOVATION PRIVATE LIMITED*
<p>प्रमाणित किया जाता है कि पेटेटी को उपरोक्त आवेदन में बयापकटित PROCESS FOR RECOVERING POLYVINYL BUTYRAL (PVB) FROM LAMINATED GLASS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 21st day of May 2019 से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।</p> <p>It is hereby certified that a patent has been granted to the patentee for an invention entitled PROCESS FOR RECOVERING POLYVINYL BUTYRAL (PVB) FROM LAMINATED GLASS as disclosed in the above mentioned application for the term of 20 years from the 21st day of May 2019 in accordance with the provisions of the Patents Act, 1970.</p>		
 INTELLECTUAL PROPERTY INDIA PATENTS DESIGNS TRADE MARKS GEOGRAPHICAL INDICATIONS		
		
अनुदान की तारीख : 27/08/2020 Date of Grant :		रीट्र पेट्र Controller of Patent
<p>टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाय है, 21st day of May 2021 को और उसके पचास प्रतिशत अंश से उसी दिन देय होगी। Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of May 2021 and on the same day in every year thereafter.</p>		

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CIRCULAR ECONOMY



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Research

Solar Panel recycling



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Our Goal

To work on circular economy by recycling scraps going for landfilling and then making value added final products from the material recovered after recycling.



Final conclusion

1. All windshield and PVB recycler should come on a common platform to share each other experience and develop the better quality of PVB film from recycling.
2. Epoxy and PVB manufacturer should come together to develop different products from PVB film scrap.
3. PVB film manufacturer should develop a special type of PVB film made from maximum use of PVB film scrap for Building Glass lamination.
4. Romani Innovation is ready for all type of cooperation in PVB recycling.

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LAXMI POLYMERS

Romani Innovation Private Limited

**A Windshield and PVB recycling Company working
towards circular economy**

City:- Bahadurgarh, Haryana- India124507

Stage:- Growth stage

Type of Business:- B2B

Contact Person:- Anil Rathi

E-mail:-anil.laxmipolymers@gmail.com

Mobile no:- +91-7507413133

+91-9315602781

Website:-www.windshield-pvb-recycling.com