

*Innovation For Safer World....*



# GENAU

Manufacturing Company LLP

(AN ISO Certified 9001 : 2015)

## PVB Films

**INDIA'S ONLY PVB MANUFACTURERS & EXPORTERS**

PVB Interlayer

Glass



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## INTRODUCTION OF COMPANY

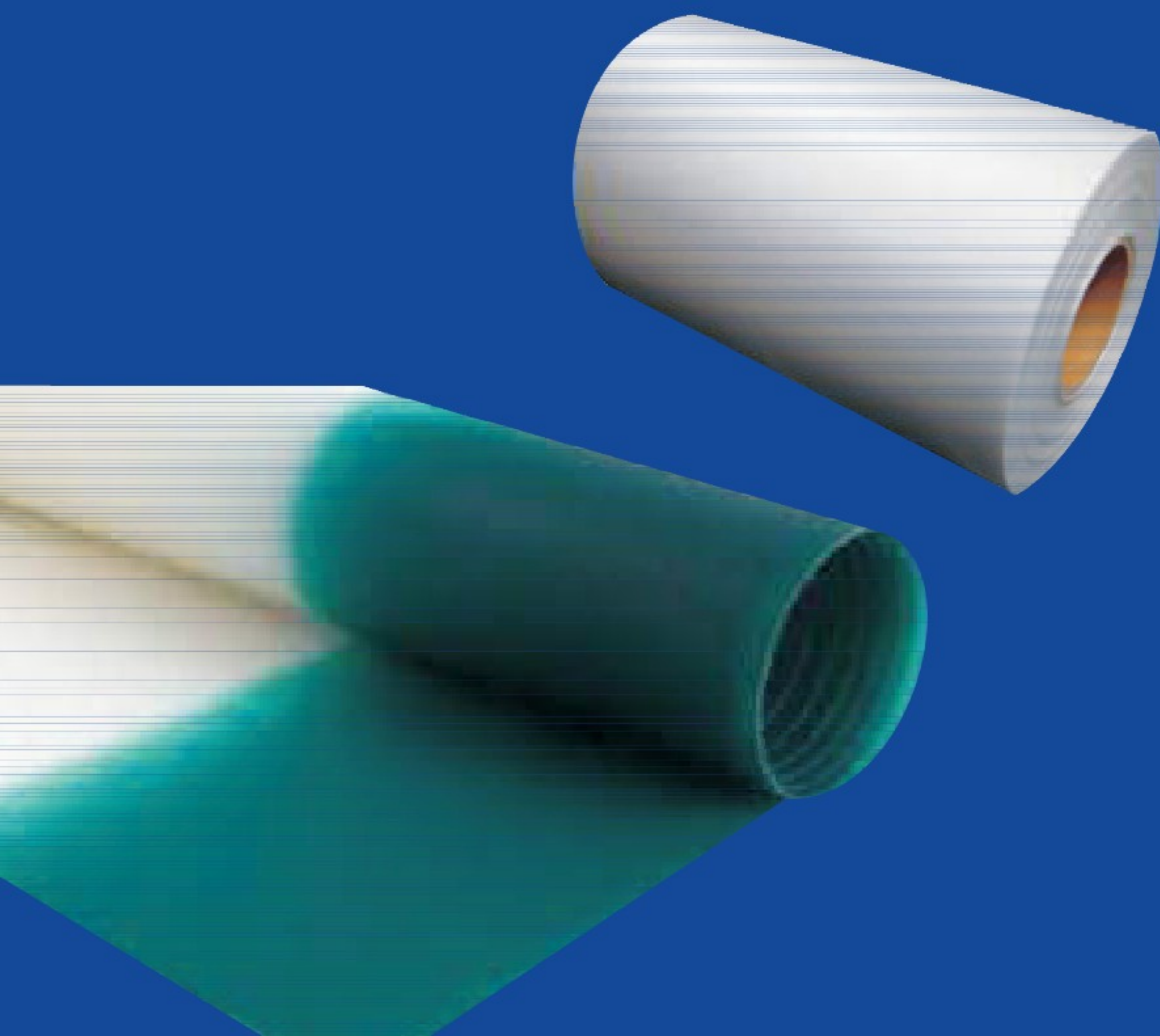
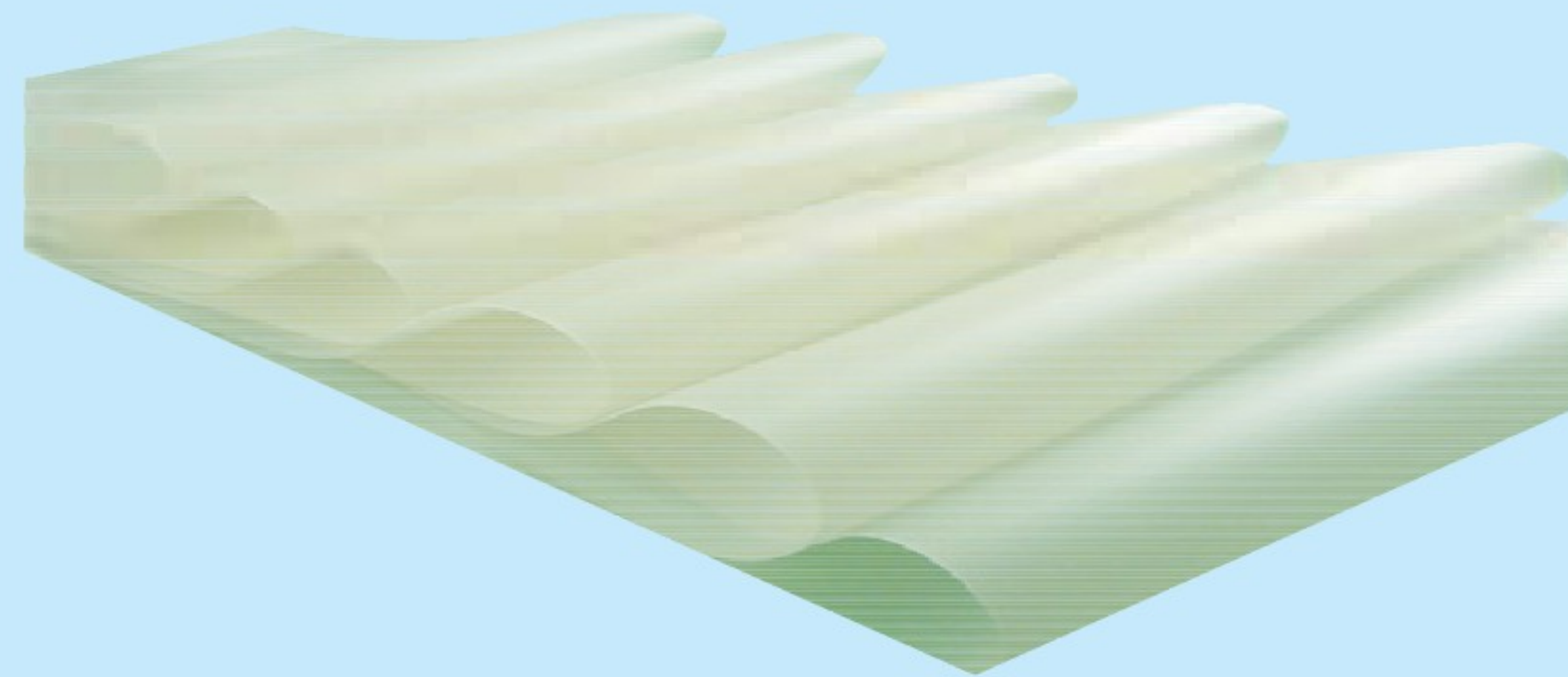
Genau Manufacturing Company LLP (GMC LLP) is the first company in INDIA to manufacture PVB Film. The promoters got the inspiration from the "Make In India" concept and started the production in India so that Indian Glass companies can get good quality of PVB Film at competitive prices that too without any transportation delay occurring due to import from different countries.



## THE BEST PRODUCTION FACILITY

"Safety Comes First" and as we all are moving towards an ERA in which we are giving more importance to human safety. There is surging demand of safety glasses all over the world. So, for this, Genau introduces new and hi-tech machinery to improve the PVB Film quality and its availability in India. With the latest Unit of Film production, Genau has made a breakthrough in extrusion, thickness control, dust shielding, moisture control and shrinkage control.

Genau also cooperates with other countries and technicians to improve and modify the production procedure so as to get best PVB Film to cater its valuable customers.



## PRODUCT INTRODUCTION

Polyvinyl butyral Film (PVB Film) is made from PVB resin with plasticizer and prepared by the technology of extrusion and calendaring. A PVB Film is bound between two panels of glass under heat and pressure thereby binding the panels of glass together and making it a single unit. The PVB Film is tough and ductile and won't allow brittle cracks to pass from one side of the laminate to the other, providing resistance and strength to the glass. It can be used as the inner layer of laminated safety glass of cars, automotive and architecture laminated glass.



## GENAU QUALITY ASSURANCE

Our company holds the idea of "Quality is the life of enterprise". We insist on taking in charge of every step from the sourcing and testing to ensure the good quality of raw material. For achieving the quality as per requirement, we choose the best raw material supplier available. In order to clean the production environment, control the production process, we have invested a lot to make fully automatic enclosed PVB Resin feeder system, dust-free workshop and air shower room to make sure the whole production process is going on in a fully enclosed environment from feeding of PVB resin to the rolling of PVB film.



## INHOUSE TEST LABORATORY

For achieving the best quality, we have made in-house international standard laboratory in which we test all the parameters which are required for good PVB film and with the help of this in-house laboratory, we have established a quality tracking system. Every roll of Genau PVB Film will be tested, labeled with roll no. and kept as samples. If any problem appears, we will check and track the samples effectively.



## THIRD PARTY INSPECTION

In spite of having in-house international Laboratory, we send our product for third party testing to BHARAT TEST HOUSE, a very reputed, world renowned test Laboratory having NABL accreditation and BIS recognition. We have got all the required testing certificates for the best quality PVB films from this laboratory.





## EXTRUDER

Extruding is one of the important process for film and we use one of the most advanced process for extruding and mixing so that everything is homogeneously mixed and our customer is given the best of quality. The temperature and pressure system which we use is one of the best available in the market as of now so that the results are satisfying and are as per the requirement and specifications.



## MOISTURE CONTROL

Optimum moisture is the key factor of any PVB Film so that there is proper adhesion at the time of glass processing. So, at Genau we take care of all the required things to control moisture at optimum level so that there is no moisture problem. Genau is equipped with proper moisture measuring equipments at its in-house laboratory so that before delivering the PVB Film to the customers, film can be verified.



## THICKNESS CONTROL

Genau uses the infrared thickness control system to monitor film thickness so that it can deliver the uniform thickness of PVB Film. The data is automatically sent back to the central system to ensure PVB Film thickness is controlled within the tolerance. The film thickness consistency is the key to minimize optical defect during glass production.







## DUST CONTROL

PVB Film requires intensely clean environment so that the quality of the film can be the best. At Genau, we follow the "CLEAN FACILITY POLICY" so that special care could be taken at the time of production of film and its packaging. All the workers have to follow special guidelines for cleanliness and they have to wear special costumes while working at Genau premises. Control in dust level and humidity allow Genau PVB to fulfill high standard of glass appearance.

## PACKAGING

All the finished products are in rolls and Vacuum packed with Aluminium foil. Final packaging is done in wooden box. Customers will find the Certificate of Approval in all the packages. There is a PE separated film between two layers of PVB film. Please keep it in air-conditioned room with temperature of 18~20°C and relative humidity of 25~30%. Sunlight, rain and strenuous vibrations should be avoided during the transportation.



## SIZES & THICKNESS

We can produce and deliver PVB Film of various sizes as per customer demand and thickness of the film varies from 0.38mm to 1.52mm. We give assurance to our customer for timely delivery and best quality.



# PVB FILM TECHNICAL DATA

Item	Standard	Typical Value	Test Condition
Thickness (mm)	0.38 ± 0.02	0.37-0.39	Online test, Manual measuring
	0.76 ± 0.02		
	1.52 ± 0.03	1.50 ± 1.54	
Shrinking Rate	12% for 0.38	10 – 12%	60°C ± 20°C, 15min
	8% for 0.76	3 – 5%	
	5% for 1.52	1 – 3%	
Roughness	15 – 45 um	28 – 45 um	
Tensile Strength	20 MPa	20-25 MPa	
Breakage Elongation	200%	250 – 400%	
Moisture		0.35 – 0.55	40°C ± 2°C, 3h
Haze	≤ 0.6%	0.3 – 0.4%	Laminated with 3mm float glass
Light Transmittance	≥ 85%	86 – 88%	Laminated with 3mm float glass
2260g Ball Drop (Automotive)	Not pass through within 5 min after impact	Not pass through	20°C ± 5°C, 4h 2260 ± 20g ball drop from 4m height
Pummel Test (Architectural)	≥6	7 - 9	-18°C ± 2°C, 2h 75mmX300mm Laminated glass
High Temperature resistance	No bubbles exceed 15mm from original edge		300mmX300mm Laminated glass 5h in Boiling Water





## AUTOMOTIVE PVB

Clear		Green Shade Band	
0.38mm – 1.52mm		0.38mm – 1.52mm	
Width	Length	Width	Length
Tailor made for customer requirement	250	Tailor made for customer requirement	250

## ARCHITECTURAL PVB

Clear							
0.38mm		0.76mm		1.14mm		1.52mm	
Width	Length	Width	Length	Width	Length	Width	Length
Tailor made for customer requirement	400	Tailor made for customer requirement	220	Tailor made for customer requirement	150	Tailor made for customer requirement	120

## STORAGE

### Before Sealing (In our warehouse)

We put the rolls of PVB Films in dust proof warehouse, away from light and Moisture. The warehouse temperature is lower than 25°C, moisture rate is lower than 40%. The expiry date is two years.

### After Unsealing (At customer's premises) **RECOMMENDED**

Please put the rolls of PVB Films in glass-lamination room and seal the package after use. Check the PVB film for any dust, fibers and hair strands stuck on before sealing it again.

## DELIVERY OF PVB FILM

Now you don't have to wait for long transportation delay because of importing PVB from different countries and you can free yourself from all the hassles of custom clearance. We assure you the timely delivery of good quality PVB Films at competitive price at your door step.









# GENAU PVB

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