

PSAT Assortment of Permaccel Products

Since 1958 Permaccel has been pioneering the development of Pressure Sensitive Adhesive Tapes in India. Today Permaccel makes a wide range of tapes that find applications in the following industry segments.

Key industry segments served:

- Automotive
- Electrical Equipment
- Renewable Energy
- Metal and Alloys
- Aviation
- Consumer Durables
- Other industries

Range of PSAT for Automotive Industry

Permacel has a wide PSAT assortment for the Automotive Industry for the following applications:

- Wire Harnessing tapes
- Mounting and holding double sided tapes

1. Wire Harnessing Tapes

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
FMVSS P3694	PET Cloth	0.15	Rubber	<ul style="list-style-type: none"> • Temperature Resistant • Abrasion Resistant • Noise Dampening • Fire Resistant as per FMVSS 	Wire Harnessing & Bundling
FMVSS P3695	PET Cloth	0.23	Acrylic		
FMVSS P3697	PET Cloth	0.15	Acrylic		
FMVSS P3695 EV	Orange PET Cloth	0.15	Acrylic		
P3709	Glass Cloth	0.15	Acrylic	<ul style="list-style-type: none"> • Fire Resistant • Anti Rodent • Radiant heat reflectivity 	
P3541	Aluminium foil Glass Cloth laminate	0.25	Acrylic		
P3708	Special conductive PET cloth	0.10	Acrylic	<ul style="list-style-type: none"> • Conductivity • Noise Dampening • Hand-tearable 	

2. Mounting & Holding Double Sided Tapes

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P480	PET	0.14	Acrylic	<ul style="list-style-type: none"> • Strong holding power • Excellent temperature resistant and solvent resistant • Good shear strength 	<ul style="list-style-type: none"> • Mounting of various decorative trims • Steel panel mounting • Mounting of trims and emblems • Flex and sign board mounting

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P604	Cloth	0.27	Rubber	<ul style="list-style-type: none"> • High tack and good adhesion • Highly conformable 	<ul style="list-style-type: none"> • Stereo mounting • Non-FR carpet holding
P4464	Cloth	0.38	Rubber	<ul style="list-style-type: none"> • Hand-tearable • Aggressive adhesion 	<ul style="list-style-type: none"> • Stereo mounting • Non-FR carpet holding
P3901	Tissue	0.06	Acrylic	<ul style="list-style-type: none"> • Strong holding power • Excellent temperature and solvent resistant • Good shear strength • Excellent surface for die-punching • Hand-tearable • No adhesive deterioration 	<ul style="list-style-type: none"> • Lamination of foams, fabrics and papers • Attaching lightweight signs, nameplates and plaques • Joining, mounting, gasket & sealing applications • Bonding of metal to rubber gaskets and plastics
P3902	Tissue	0.09	Acrylic		
P3903	Tissue	0.15	Acrylic		
P3904	Tissue	0.07	Acrylic		
P3483	Tissue	0.08	Acrylic		
P3486	Tissue	0.10	Acrylic		
P4311	Tissue	0.06	Acrylic		
P703N	PE Foam	1.10	Acrylic		
P708N	PE Foam	Available in 3 mm and 6 mm	Acrylic	<ul style="list-style-type: none"> • Non cracking • Water proof 	
P708NFR	PE Foam	Available in 10 mm	Hot melt	<ul style="list-style-type: none"> • Flame Retardant • Water proof 	
P713	PE Foam	0.80	Acrylic	<ul style="list-style-type: none"> • Strong adhesion • Compressible 	
P711	PE Foam	1.20	Acrylic	<ul style="list-style-type: none"> • Strong adhesion • Compressible 	
P714	PE Foam	0.90	Acrylic	<ul style="list-style-type: none"> • Excellent resistance to moisture, chemicals and solvent 	

Range of PSAT for Electrical Equipment

For the electrical equipment industry Permacel have the widest assortment of tapes – Including single side adhesive/ double sided adhesive and self fusing tapes. Many of the tapes are UL listed. Tape combinations can be made to meet the required class of insulation and supplied as self wound or with release liners. Special properties like FR (flame/ fire retardant) can be given as required.

The tapes are made on the following backings:

- Films- PET, Polyimide, Polyamide
- Cloth- Cotton, PET, Rayon, Glass
- Special laminates/ Non woven – Nomex/ PET- PET fleece etc/ PET- Glass cloth

Adhesives include Natural rubber, Synthetic rubber, Acrylic and Silicone

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
 P101	Cotton Cloth	0.30	Rubber	<ul style="list-style-type: none"> • Fire Retardant • UL approved : File Number E227572 	<ul style="list-style-type: none"> • LT splicing • Insulation on low voltage cable joint for indoor and outdoor applications • Ideal replacement for non-flame-retardant conventional tapes
 P101PT	Cotton Cloth	0.30	Rubber		
P210	Glass Cloth	0.23	Acrylic	<ul style="list-style-type: none"> • High temperature masking • Flame retardant • Excellent tensile strength 	<ul style="list-style-type: none"> • Inner wrapping for auto-electrical coils • Ground insulation • Holding of Coil on the bobbin
 P212	Glass Cloth	0.17	Acrylic	<ul style="list-style-type: none"> • Class F • Excellent Strength • Highly conformable • UL approved : File Number E227572 	<ul style="list-style-type: none"> • Lead locking application in oil filled transformers • Insulation & reinforcement of leads in motors • Protection of wire harness • Outer wrapping low voltage coils
 P214E	Glass Cloth	0.18	Silicone	<ul style="list-style-type: none"> • Class N • High temperature resistance • Flame retardant • UL approved : File Number E227572 	<ul style="list-style-type: none"> • Bundling of conductors and lead wires • Holding & reinforcement of primary insulation
P414C	Glass Cloth	0.13	Silicone	<ul style="list-style-type: none"> • Class H • Excellent tensile strength • High temperature masking 	<ul style="list-style-type: none"> • Barrier or ground insulation on transformers coils • Cut back application in SAW pipe

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P215	Glass Cloth	0.20	Acrylic	<ul style="list-style-type: none"> • Class F • Flame retardant 	<ul style="list-style-type: none"> • Holding & reinforcement of primary insulation in transformers
P21	Glass Cloth	0.16	Rubber	<ul style="list-style-type: none"> • Abrasion Resistant • Good Conformability 	<ul style="list-style-type: none"> • Outer wrapping for low voltage coils • Heat stable insulation for hot spot
P210	Glass Cloth	0.23	Acrylic	<ul style="list-style-type: none"> • High temperature masking • Flame retardant 	<ul style="list-style-type: none"> • Used in auto-electrical coils as inner wrap, ground insulation and for holding of Coil on the bobbin
P213	Glass Cloth	0.24	Silicone	<ul style="list-style-type: none"> • Excellent tensile strength • Double sided Tape 	Wedge holding
P3710	Glass Cloth	0.13	Silicone	<ul style="list-style-type: none"> • High temperature resistance • Flame retardant 	<ul style="list-style-type: none"> • Holding & reinforcement of primary insulation in transformers
P246	Acetate Cloth	0.21	Rubber	<ul style="list-style-type: none"> • Conformable • Printable • Hand-tearable 	<ul style="list-style-type: none"> • Coil wrapping and wire harness bundling applications
 P291	Kapton® film	0.06	Silicone	<ul style="list-style-type: none"> • Class H • High performance silicone adhesive • Excellent chemical resistance • UL approved : File Number E227572 	Barrier insulation for coils of breaks and welding transformer
 P298	Kapton® film	0.08	Silicone		
 P291**	Polyimide film	0.06	Silicone		
 P298**	Polyimide film	0.08	Silicone		
P248N	PET + fleece	0.11	Rubber	<ul style="list-style-type: none"> • Class B • High strength backing provides superior resistance to puncture and tear 	<ul style="list-style-type: none"> • Outer wrapping for low voltage coils • Can be used for holding, lead wire insulation in motors
P248NY	PET + fleece	0.20	Rubber		
P253	PET Film	0.05	Rubber	<ul style="list-style-type: none"> • Class B • Highly Conformable • Resistant to chemicals 	<ul style="list-style-type: none"> • Outer wrapping for low voltage coils
P254	PET Film	0.08	Rubber	<ul style="list-style-type: none"> • Class B • Excellent chemical resistance 	<ul style="list-style-type: none"> • Insulation of low to medium voltage coils

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
 P256	PET Film	0.05	Rubber	<ul style="list-style-type: none"> • Class B • Excellent chemical resistance • UL approved : File Number E227572 	<ul style="list-style-type: none"> • Outer wrapping for low voltage coils, break coils, transformer coils.
 P589U	PET Film	0.05	Acrylic	<ul style="list-style-type: none"> • Class B • High breakdown voltage • UL approved : File Number E227572 	<ul style="list-style-type: none"> • Holding of insulation paper • As outer wrap on the small transformer coils
P3589	PET Film	0.05	Acrylic	<ul style="list-style-type: none"> • Class B • High breakdown voltage 	<ul style="list-style-type: none"> • Insulation in motors and generators
P3262	PET Film	0.10	Acrylic	<ul style="list-style-type: none"> • Thin & conformable • High tack adhesive • Anti-slip silicone coating 	Wrapping of stick ignition coil bobbin
P247U	PET Film	0.17	Acrylic	<ul style="list-style-type: none"> • Class F • Oil Resistant • High strength after exposing to High Temperature 	Holding of Kraft paper in coils of oil cooled transformer
P4185	PEN Film	0.06	Acrylic	<ul style="list-style-type: none"> • Class F • High breakdown voltage • Good mechanical strength 	Insulation of transformers, motors, capacitors and bobbins
P571 FR	Silicone Rubber	0.50	Self fusing	<ul style="list-style-type: none"> • Class 180 • Excellent anti tracking property • Flame Retardant 	<ul style="list-style-type: none"> • Used for cable splicing/jointing applications in both, on ground as well as underground HV cables
P572	Silicone Rubber	0.30	Self fusing	<ul style="list-style-type: none"> • Instantaneous fusion • High dielectric strength 	
P966	EPR rubber	0.75	Self fusing	<ul style="list-style-type: none"> • High electrical strength • Excellent conformability 	<ul style="list-style-type: none"> • Insulating, waterproofing and protection of outdoor components
P282N	Nomex Paper tape	0.06	Acrylic	<ul style="list-style-type: none"> • Thin and conformable • High strength backing • High performance silicone adhesive • Residue free removal 	<ul style="list-style-type: none"> • Insulation in motors and generators • Barrier insulation in coils of breaks and welding transformer

Range of PSAT for Renewable Energy Industry

Permacel tapes are widely used in the Wind energy segments for the following applications :

- Tapes for lay up and high temperature masking
- Tapes for mounting of resin channel
- Tapes for blade edge protection

Tapes for lay up and high temperature

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P3292	PET film	0.07	Silicone	Excellent thermal and chemical resistance	Mold masking at high temperature

Tapes for mounting of resin channel

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P760	White PET film	0.13	Tackified Acrylic	Good bonding to metal and powder coated surface	<ul style="list-style-type: none"> • Fixation of layers and infusion channels • Mounting of vacuum spirals
P761	White PVC film	0.17	Tackified Acrylic	Excellent adhesion and tack	
P762	White PET film	0.21	Tackified Acrylic	• Suitable for heavy stress, critical substrate or high temperature applications	
P763	PET film	0.18	Tackified Acrylic	• Suitable for heavy stress, critical substrate or high temperature applications	

Tapes for blade edge protection

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
PU film	Abralab 150	0.15	Acrylic	<ul style="list-style-type: none"> • Robust abrasion resistance but conformable backing • High transparency 	Leading edge protection
	Abralab 300	0.30			
	Abralab 300 W	0.30			

Range of PSAT for Metal and Alloys Industry

Permacel have developed a wide range of tapes to meet critical industry requirements like:

- Cable protection
- High temperature masking
- Welding protection

With long experience in high temperature resistant films/ Fabrics/ Adhesives we can make custom tapes meeting your special application requirements

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P240HR	Aluminium Foil + Silica Cloth	0.70	Silicone	• High tensile strength	<ul style="list-style-type: none"> • Insulation of Pipes, Cables, Hoses as heat shield • Protection of cable sheathing

Range of PSAT for Aviation Industry

For over 30 years Permacel have been supplying tapes to Aviation industry and MROs in India for the following applications:

- Carpet mounting
- Net splicing in Cargo holding area

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P640	Glass Cloth	0.36	Rubber	<ul style="list-style-type: none"> • Excellent conformability • Hand-tearable • Aggressive adhesion 	Carpet mounting
P205A	Glass Cloth	0.15	Acrylic	<ul style="list-style-type: none"> • Excellent bond with most substrates • Flame Retardant 	Cargo splicing tape

Range of PSAT for Consumer Durables Industry

Permacel have an assortment of products for meeting specialized requirements of Consumer durable industries like:

- NSF approved tapes for RO filters
- Breathable tapes for refrigerators
- Wire harness tapes for appliances
- Residue free removal holding tapes

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
 P691	PP Film	0.12	Acrylic	<ul style="list-style-type: none"> • NSF® Certified Product • Excellent dimensional stability • Smooth, easy unwind • Bright, glossy, opaque finish • Permanent adhesion 	Seamless outer wrap for reverse osmosis water filters
P691*	PP Film	0.12	Acrylic	<ul style="list-style-type: none"> • Excellent dimensional stability • Smooth, easy unwind • Bright, glossy, opaque finish 	
P692	PP Film	0.07	Acrylic	<ul style="list-style-type: none"> • Permanent adhesion for long term protection 	
P3710	Glass Cloth	0.13	Silicone	<ul style="list-style-type: none"> • High temperature resistance • Abrasion resistance • Excellent tensile strength • Flame retardant 	<ul style="list-style-type: none"> • Wire harness wrapping for appliances • Bundling heavy conductor coils • High temperature masking • Barrier or ground insulation on transformers coils • High temperature applications
P3720	Glass Cloth	0.15	Silicone	<ul style="list-style-type: none"> • High temperature Masking • Flame retardant • Class H • Excellent tensile strength 	<ul style="list-style-type: none"> • Specially designed for cut back application in SAW pipe • Barrier or ground insulation on transformers coils • High temperature wire harness wrapping • Bundling heavy conductor coils • High temperature masking
P246	Acetate Cloth	0.21	Rubber	<ul style="list-style-type: none"> • Conformable • Printable • Hand-tearable 	<ul style="list-style-type: none"> • Coil wrapping and wire harness bundling applications • Used as coil cover
P609T	PET film	0.06	Rubber	Controlled Release	Holding of ABS component inside the refrigerator during shipment

Range of PSAT for Other Industries

Permacel have been in the forefront in India in designing specialty tapes for many applications across a wide industry spectrum like HVAC, Flexo Stereo mounting, water ingress protection. mounting, masking, transit protection etc.

Few tapes designed as are under

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P416	Glass Cloth + Film	0.11	Rubber	<ul style="list-style-type: none"> • Great durability with high tensile strength • Provides stronger strength for heavy objects • High performance adhesion and tack 	<ul style="list-style-type: none"> • For strapping and holding application • For packing of heavy weight cartons • For sealing of metal coils or pipe bundling.
P229N	Glass Cloth + Film	0.30	Acrylic	<ul style="list-style-type: none"> • Excellent Tensile Strength • Excellent adhesion • Water Proof 	<ul style="list-style-type: none"> • Sheet metal joints in Buses & Railway • To be used for electrical panels joints
P12S	Glass Cloth + Aluminium foil	0.20	Silicone	<ul style="list-style-type: none"> • Maximum reflection of light and heat • Low moisture content of these products makes these tapes as a good sealant. • The reliable adhesive for long serviceable life outdoors as well as high humid atmosphere. • Provides excellent vapour barrier • Self-wound roll for easy handling 	<ul style="list-style-type: none"> • Static sensitive component masking, RFI/EMI shielding outer wrap at high temperatures • Insulation of pipes, cables from heat due to radiation & patch repairs • Sealing of joints of aluminium cladding in conventional insulation
P11SS*	Aluminium foil	0.08	Acrylic	<ul style="list-style-type: none"> • Thermally conductive tape helps to dissipate heat and improves efficiency • Withstands exposure to flame, weathering, moisture and UV • Good conformability 	<ul style="list-style-type: none"> • Sealing of unused holes/apertures in the junction box and electrical panels • For sealing of fibreglass duct board in HVAC systems
P11TM	Aluminium foil	0.08	Acrylic	<ul style="list-style-type: none"> • Chemical resistant • Thermally conductive tape helps to dissipate heat and improves efficiency • EN Certified - EN 45545-2 	<ul style="list-style-type: none"> • For end sealing/masking in coated pipe industry • Sealing of unused holes/apertures in the junction box and electrical panels
P657	Cotton Cloth	0.31	Rubber	<ul style="list-style-type: none"> • Residue-free removal even after high temperature exposure • Excellent conformability • Good adhesion on rough surface 	<ul style="list-style-type: none"> • Masking of window flanges in automobile • Permanent closure of interior and exterior holes in automobile

Product	Backing	Thickness (mm)	Adhesive	Feature	Application
P3908	Non-Woven	0.15	Acrylic	<ul style="list-style-type: none"> • High initial grab and tack • Excellent adhesion to low surface energy plastics • Provides good surface for die-punching 	<ul style="list-style-type: none"> • Lamination of Foams, fabrics and papers • Attaching Lightweight signs, nameplates and plaques
P490	Tissue	0.09	Acrylic	<ul style="list-style-type: none"> • Excellent adhesion to low surface energy plastics • Provides good surface for die-punching 	<ul style="list-style-type: none"> • Lamination of Foams, fabrics and papers • Web splicing of paper and corrugated board
P492	Tissue	0.13	Acrylic	<ul style="list-style-type: none"> • Very high Initial Adhesion • Excellent adhesion to low surface energy plastics • Provides good surface for die-punching 	<ul style="list-style-type: none"> • Lamination of Foams, fabrics and papers • Attaching Lightweight signs, nameplates and plaques
P197	PVC film	0.15	Heat Sealable	<ul style="list-style-type: none"> • Strong bonding on application of hot air at a low to medium temperature • Highly flexible and conformable to ensure ease of application on contoured surfaces 	<ul style="list-style-type: none"> • Seam sealing tape for coveralls, body suits, premium raincoats, jackets, etc.
P486	PET Film	0.14	Acrylic	<ul style="list-style-type: none"> • Excellent adhesion • Excellent temperature and chemical resistance 	<ul style="list-style-type: none"> • Ideal for fixing silicone rubber elastomer and foam
P601	Cloth	0.30	Rubber	<ul style="list-style-type: none"> • Good adhesion • Highly conformable 	<ul style="list-style-type: none"> • Water-proof masking applications