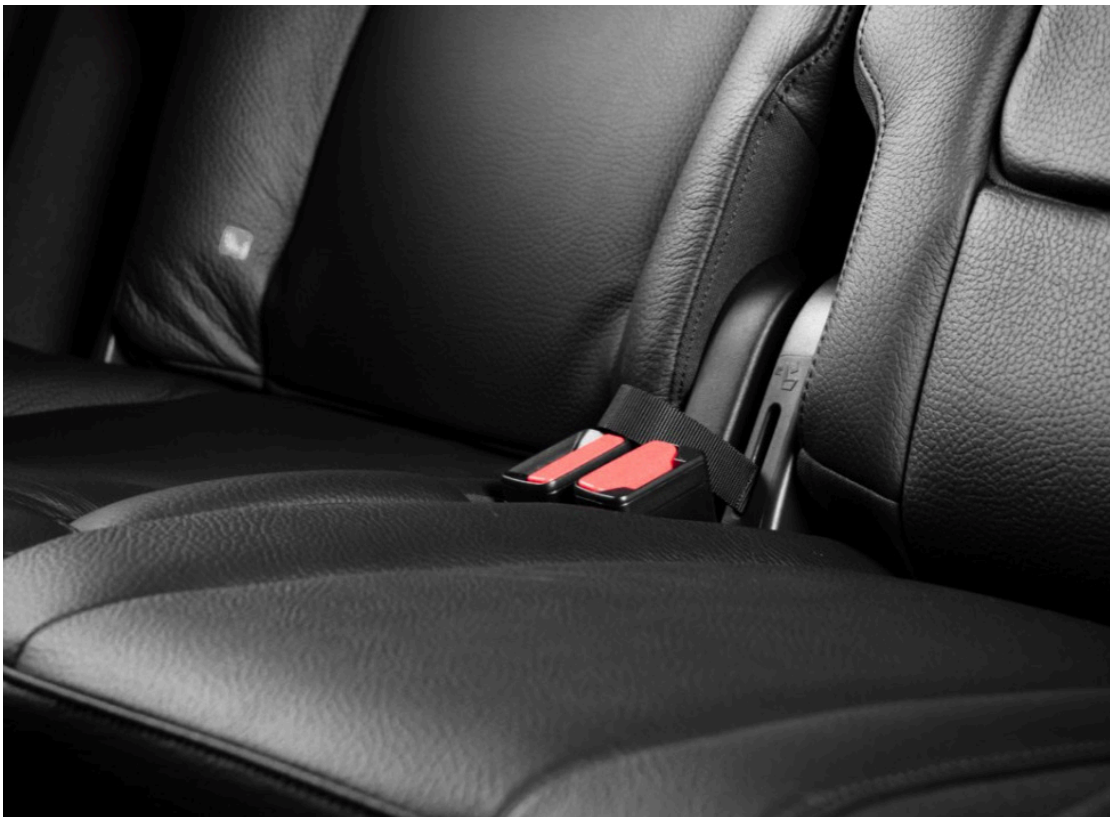
PSA Solutions for Seat Heating and Occupant Sensors

Automotive Adhesives



AVERY DENNISON

With a wide range of specially formulated pressuresensitive adhesives, Avery Dennison Performance Tapes can offer the optimal solution for attaching seat heating and occupant sensing components to automotive seat foams. The increasing adoption of seat heating, driven also by the need to provide occupants of electric vehicles with thermal comfort without heavily impacting the driving range, will be a productivity challenge for many automotive seat assemblers. Pressure sensitive tapes provide the robustness required for these demanding applications while offering advantages in productivity over alternatives such as stapling or wet adhesives.

Features

– A range of rubber and acrylic based tapes to securely bond heating and sensing layers to all types of PE, PU and EPDM foams with non-woven webs and scrims.
– Withstand temperature differences, moisture (sweat) and chemicals.
– Controlled release liners allow for easy removal at point of application.
– Low VOC solutions available.
– Plasticizer resistant formulations.
– Coating techniques to selectively apply the adhesives across the contact area.
– Water vapour transmissions is given with certain acrylic adhesives.

Benefits

– A range of rubber and acrylic based tapes to securely bond heating and sensing layers to all types of PE, PU and EPDM foams with non-woven webs and scrims.
– Can reduce assembly time and improve manufacturing flexibility compared to alternatives such as wet adhesives.
– Easy application and potentially reduced operator fatigue (i.e. compared to stapling).
– Durable bond that does not impact the comfort and performance of the seat.
– Bonding of printed heating and sensing components without affecting their functional performance.
– Designs available that are compatible with foams for ventilated seats.
– Resistance to mold release agents means no adaptation of the foaming process required.
– Acrylic adhesives that are compatible with printed conductive ink circuits.
– Making the application easier by incorporating finger lifts to facilitate liner removal.
– Contribute to a comfortable seating climate.

Solutions

A range of Avery Dennison tapes have already found a place in the production of seat heating and occupant sensing mats. UV cured acrylic adhesives combine high adhesion to poly-urethane foams with the lowest emissions. Dispersion acrylics offer a balance between a wide range of foam bonding requirements and low emission and odor values. Rubber based PSAs are ideal for foams with the most challenging mold release agents. All the variants can be offered with pattern coating, either as a transfer tape or reinforced with scrims or a carrier for added strength.

Product	Tape Thickness without liner (µ)	Carrier	Liner	Key Features
FT 2150	60	-	Glassine, 105gsm	Low VOC acrylic transfer tape for PUR foam bonding with greater moisture resistance, also compatible with conductive inks
FT 2151	76	-	Glassine, 105gsm	Low VOC acrylic transfer tape for laminating on more porous foams.
FT 7961	95	PET scrim	Glassine, 90gsm	Low VOC reinforced acrylic transfer tape for foam and PET bonding and greater moisture resistance, also compatible with conductive inks
FT 7250	151	Non-woven scrim	Glassine, 105gsm	Low VOC double coated acrylic tape on a nonwoven carrier to bond more porous foams and open scrims. Compatible with conductive inks
FT 7352	212	PET 12µm clear	Glassine, 105gsm	Low adhesive acrylic for harder to bond foams and PET layers. Compatible with conductive inks
FT 2018	80	-	Glassine, 80gsm	Acrylic transfer tape for general bonding with moderate VOC levels.
FT 2095	50	-	Glassine, 80gsm	An economical low VOC acrylic tape for bonding fine pored foams.
FT 2098	80	-	Glassine, 80gsm	Low VOC acrylic for more porous foams and scrims.
FT 7951	80	PET Scrim	Glassine, 80gsm	A reinforced acrylic transfer tape with moderate VOC for higher tack on foams.
FT 7995	125	PET Scrim	Glassine, 80gsm	A reinforced acrylic transfer tape with moderate VOC for higher tack on coarser pored foams.
FT 7999	90	PET Scrim	Glassine, 80gsm	Low VOC acrylic reinforced transfer tape for coarser foams and scrims.
FT 107	60		Glassine, 105gsm	Rubber based transfer tape well suited for bonding PU and PE foams.
FT 666	195	PET Scrim	Glassine, 90gsm	A reinforced rubber based adhesive transfer tape for high adhesion on rubber based or coated foams.
FT Y6663	220	PET Scrim	Glassine, 90gsm	A reinforced rubber based adhesive transfer tape for highest performance on rubber based or coated foams.
FT 2147	60	-	OPP white, 100µm	General purpose rubber adhesive transfer tape with a plastic liner.
FT 21081	86	-	Glassine, 95gsm	General purpose rubber adhesive transfer tape for foam bonding.

Our technical experts are here to show you how to work with your materials successfully during every phase of your application. You can count on us to approach any challenge with genuine curiosity and care.

Contact your Avery Dennison sales representative or visit tapes.averydennison.com

Asia Pacific
Kunshan, China,
No. 618 Nanhe Road
Kunshan Economic &
Technological Zone
China 215335
Phone: +86 400 6987 555
Fax: +86 512 57155059

Europe
Tieblokkenlaan 1
B-2300 Turnhout
Belgium
Phone: +32 (0)14 40 48 11
Fax: +32 (0)14 40 48 55

North America
250 Chester Street
Painesville, Ohio
44077 USA
Phone: +1 866-462-8379
Fax: +1 888-358-4469

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