

# Electronics Product Line Selector

### High Performance Bonding Solutions for Smart Devices and Mobile Electronics Applications

Avery Dennison Performance Tapes pressure-sensitive adhesives and tapes are designed for high end bonding and mounting applications in smart devices and electronics. Our standard and engineered solutions are used for component attachment and general assembly, window/lens bonding, gasket mounting, thermal and light management applications.

## Global reach, helping you to succeed

- Research and development
- Engineering
- Sales and customer service
- Manufacturing and supply
- Local lab and testing facilities in Silicon Valley

		PET Tapes		Nonwoven Mounting Tapes	Different	ial Tapes	Removable Acrylics	
9	n	Double Coated PET		Low Density Double Coated Nonwoven	Removable/ Repositionable	Differential Adhesives	Single Coated Protective Films	
Product Group	Description	Liner — Acrylic — PET — carrier Acrylic J	Liner 1  Acrylic  PET  carrier  Acrylic  Liner 2	Liner — Acrylic — Norwoven — Carrier Acrylic	Liner Removable adhesive PET carrier Permanent adhesive	Liner Liner side adhesive PET carrier — Side Joseph Si	PE / PET facestock Removable acrylic Liner	
Key Application Benefits		- Excellent dimensional stability - Allows for ultra thin constructions (5µm) - Range of acrylic adhesives available, including HPA™ High Performance Acrylic - Moisture and tear resistant polyester carrier - Strong film provides optimum convertibility and very good handling characteristics * Polypropylene carrier		Modified acrylic adhesive with high initial tack for quick bonding     Good adhesion on various substrates     Excellent resistance to solvents, chemicals, heat and moisture     Nonwoven carrier provides exceptional conformability	- FT 7327/FT 310: Differential tape with removable acrylic (liner side)/permanent acrylic (unwind side) adhesives - FT 8306: Differential tape with removable acrylic (liner side)/ permanent rubber (unwind side) adhesives	- FT 8392: Differential tape with rubber (liner side)/acrylic (unwind side) adhesives - FT 9302SF: Differential tape with silicone (liner side)/acrylic (unwind side) adhesives	Specially designed for residue free removal from plastics, wood, painted metal and glass surfaces after intended period of use     Excellent resistance to UV light     Easy to die cut and strip     Adds dimensional stability to the substrate	
		General Mounting	High Performance Mounting	Double Coated	Double Coated	Double Coated	Single Coated	
	5		HPA 9005					
	10		HPA 9010					
	25				FT 7327			
	30	FT 7831						
	50	FT 7535	FT 7383					
	60 75			FT 7508L	FT 310			
	85			I I 7 JUOL	FT 8306	FT 8392		
	100	FT 7540	FT 7384		11 0300	110392		
E	120	117010	117001	FT 7700, FT 7512L			FT 0411, FT 0418	
Thickness (µm)	125						,	
knes	150	FT 7545	FT 7338	FT 7515L		FT 9302SF		
Thic	175							
	200		FT 7354					
_	250		FT 7425*					
	300							
	350							
	400							
	500							
	650							
	800 1100							
Application Examples		Mounting and strengthening of graphite and other heat spreading materials  General attachment of camera modules, speakers, batteries, and FPC		Nameplates and foam lamination, speaker mesh mounting Good wet out characteristics for use on rough and uneven surfaces, such as felt and fiber	Temporary bonding Process aides to be removed prior to assembly	Used for bonding dissimilar materials	Transparent surface protection film to allow visual inspection during mounting and processing	

#### **Double Coated Foam Tapes Light Management** Acrylic Foam Bond Closed Cell PE Foam Foamed Elastomeric Adhesive Black PET (AFB<sup>™</sup>) Tapes - High adhesion on a variety of - High adhesion and good shear - Highest level of impact - Black polyester with a modified acrylic adhesive absorbs shock and distributes substrates, including Low Surface performance - Designed for light insulation with high temperature resistance and high Energy (LSE) materials stress evenly - Excellent die cutting performance adhesion - Excellent cohesion provides high - Strong lamination properties at narrow geometries - FT 5262 DL: Removable adhesive on liner side dynamic shear and push out force - Good resistance to moisture, UV - Rubber based adhesive has better \* High temperature shear on polycarbonate - High temperature and UV light, high temperatures and other adhesion, shear, and pluck than \*\*Matte black facestock environmental factors resistance most acrylic tapes - Good moisture and dimensional - 3 Layer all black construction for superior 3D light blocking stability performance FM 7000 Series **AFB 61 Series** FM 9200 Series **Double Coated Single Coated** HPA 0910B\*\* FT 5335M\*\* FT 5393 DL\* FT 5255 FT 5250 DL, FT 5395 DL\* FT 5262 DL

FM 9215B

FM 9220B

FM 9225B

Window/lens bonding, gasket mounting and sealing Backlight Unit (BLU) attachment

AFB 6105B

AFB 6102B

AFB 6125W

AFB 6140

AFB 6164 AFB 6180 AFB 6111

FM 7669I

FM 7675I

FM 7680I FM 7685I FM 2404L

FM 2405L

Used for bonding back light units such as reflectors, light guide plates, diffusion sheets and brightness enhancement films into display modules

Light Shielding & Electrical Insulation

FT 5297

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Transfer Tapes		High Ten	nperature	Skin C	ontact		
Low Surface Energy (LSE)  General Purpose  Liner HPA acrylic adhesive  adhesive		Silicone Adhesives  Clear PET liner Silicone adhesive Clear PET Silicone adhesive Clear PET Silicone adhesive Clear PET Silicone adhesive		Biocompatible Adhesives  Liner  Adhesive  Carrier  Adhesive  Adhesive  Adhesive		Product Group	Description
Provides high adhesion, tack and shear when bonding to Low Surface Energy (LSE) substrates such as polypropylene and polyethylene     HIgh environmental resistance	- High cohesive strength adhesives designed for excellent converting properties - Excellent balance of properties for demanding application performance - Resistance to chemicals, solvents, heat, humidity and UV light - Thick adhesive mass allows for improved bonding and gap filling	- Designed for applications	nmental factors is important	- Adhesives have been teste intact skin per ISO 10993 - Passed for cytotoxicity, set Acrylic adhesive: FT 8346, FT 8217, FBA 19 FBA 8960, FT 1126 Rubber adhesive: FT 8345	standard. nsitization and irritation	Key Application	Benefits
Transfer Tape	Transfer Tape	Double Coated	Transfer Tape	Double Coated	Transfer Tape		
						5	
						10	
	HPA 1931		FT 3010			25	
					FBA 1960	30	
HPA 3902		FT 3305	FT 3011			50	
	HPA 1932		FT 3012			60	
					FT 1123	75	
						85	
	HPA 1934	FT 3310		FBA 8960		100	
				FT 8346		120	Ē
HPA 3905	HPA 1935			FT 8345	FT 1126	125	Thickness (µm)
		FT 3315		FT 8217		150	ckn
						175	투
						200	
						250	
						300	
						350	
						400	
						500	
						650	
						800	
						1100	
Applications requiring excellent quick stick, high temperature resistance, and adhesion to LSE substrates	Small irregular shaped die-cuts Bonding FPC, keyboard, punch die-cuts	Designed for applications where heat and environmental resistance is important  Silicone adhesive performs under high heat as a constrained layer damper  Damping characteristics customizable to temperature/ frequency of the application		ce needs to be compatible	Application	Examples	

ADHESIVES							
Acrylic	High Performance Acrylic	Synthetic Elastomer	Silicone				
General purpose — very clear, plasticizer resistant adhesive     Excellent processing and die cutting stability     Resistance to elevated temperatures, solvents and plasticizers     High tack — versatile, general purpose modified acrylic adhesive     Strong bond to a variety of substrates, including irregular surfaces	Dual cured pure and modified acrylic adhesive offering very high shear and very high temperature resistance     Offers low oozing characteristics and allows for complex die cuts at room temperature     Resistant to humidity, chemical immersion and UV exposure, and exposure to harsh chemicals     Single adhesive solution designed for the most challenging applications	- High affinity for Low Surface Energy (LSE) substrates, with high immediate adhesion - Provides excellent damping performance and resistance to UV light exposure - Excellent die cutting characteristics - Excellent high temperature and chemical resistance - Heavy adhesive mass for bonding to irregular or rough surfaces	Designed for high temperature,     Low Surface Energy (LSE) bonding     applications     Exhibits very good damping     characteristics at high temperatures     and performs through adverse     weather conditions     For electronics applications that     demand resistance to solvents and     extreme heat     Excellent die cutting and slitting     properties for easier conversion				

CARRIERS				LINERS			
PET	Nonwoven	PE Foam	Custom	PET	Poly-coated Kraft (PCK)	Glassine	Custom
- Available in white, black or clear - Caliper range: 2.4µm - 50µm - Dimensionally stable - Good convertibility	- Good for die cutting - Dimensionally stable - Mechanical reinforcement - Excellent product cohesion - Highly conformable	Available in black or white     Caliper range: 100µm and up     Shock absorption     Special high cross-linked foams     Compressible     Sealing and gap filling	Custom films available on request     Metal foils     Tissue	- Available in white, black or clear - Caliper range: 25µm - 75µm - Good convertibility, excellent dimensional stability - Custom printing available - Double liner option available	- Available in bleached (white) or natural (brown) - Caliper range: 110μm - 175μm - Dimensionally stable in high humidity - Custom printing available	- Available in bleached (white) or natural (brown) - Caliper range, 75µm - 150µm - Cost-effective solution - Custom printing available	Custom liners available on request     Olefinic films     Coated papers, finished papers     Various weights available     Custom release forces available

CUSTOM PRODUCT DEVELOPMENT							
Application Knowledge	Tape Construction	Adhesive/Release Formulation	Material Science				
Dedicated electronics application technical service team     Converting and processing expertise with on-site support     Understanding of must-have, nice-to-have, and future development application requirements     Custom designed fixturing for product testing	Pilot coating capability for rapid prototyping and turnaround     Adhesive pattern coating for dry edging of slit rolls and lift tabs     Custom liner back printing available     Roll slitting capability as small as 13mm roll width	- Functional additive modifiers available - Glass fibers, biocides, pigments, UV stabilizers, metal powders - Library of crosslinking technologies, tackifiers, plasticizers, modifiers - Tailored release formulation to optimize converter/OEM performance	Characterize mechanics of the system     Develop structure property relationships     In-house polymer synthesis     Develop next generation technologies properties for easier conversion				

#### We are Committed to Our Customer's Success

Thanks to our technical teams and extensive expertise in pressure-sensitive adhesives and tape constructions we are able to offer a range of application solutions to address our customers' application challenges. We use our experience to innovate and create high performance, high quality products. We have state-of-the-art labs to test and develop the solution that's right for you.

Avery Dennison Performance Tapes is an on-site applications provider. Our skilled teams of application technical service engineers, sales and customer service are here to address your application challenges.

Please refer to **Tapes.AveryDennison.com** for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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