3MVHB[™] Architectural Panel TapesG11F • B11F • G16F • B16F • G90F • B90F

Product Description	3M [™] VHB [™] Architectural Panel Tapes are durable, high performance double sided pressure sensitive acrylic foam tapes. These tapes have been used for many applications in the construction industry, including the manufacture of architectural panels for curtain walls, exterior building cladding and interior panel and trim attachment. In many situations, 3M [™] VHB [™] Architectural Panel Tapes can replace rivets, spot welds, liquid adhesives, sealants and other permanent fasteners and provide immediate handling strength during the fabrication process.						
Construction	Tape Type:	G11F	B11F	G16F	B16F	G90F	B90F
	Tape Color:	Gray	Black	Gray	Black	Gray	Black
	Adhesive:	Adhesive: Multi-Purpose Acrylic					
	Adhesive Carrier:		A	crylic Foam	ı (closed c	ell)	
	Thickness: 0).045" (1	l.1 mm)	0.062" (1.6 mm)	0.090" (2.3 mm)
	Density:	45 lb./ft.³ (720 kg/m³)					
	Linov	Red film Red film					
	Liner: Note: The follow	ing tech	nical info	ormation a	nd data sl	hould be c	
		ing tech	nical info	ormation a	nd data sl	hould be c	onsidered
Typical Physical Properties	Note: The follow representative of purposes.	ing tech r typical G11F 25 II	nical info only and	ormation a I should no G16F 30 II	nd data sl ot be used	hould be c for specif G90F 30 lb	onsidered ication B90F
	Note: The follow representative of purposes. Tape Type: Peel Adhesion: ASTM D3330	ing tech r typical G11F 25 II (438 N/ 85 II	nical info only and B11F b./in.	ormation a I should no G16F 30 II (525 N/ 80 It	nd data sl ot be used B16F b./in.	hould be c l for specif G90F 30 lb (525 N/3	onsidered ication B90F o./in. 100 mm)
	Note: The follow representative of purposes. Tape Type: Peel Adhesion: ASTM D3330 Anodized Aluminum Normal Tensile: ASTM D897	ing tech r typical G11F (438 N/ 85 II (585 70 II	nical info only and B11F b./in. '100 mm) b./in. ²	ormation a I should no G16F 30 II (525 N/ 80 II (550 70 II	nd data sl ot be used B16F b./in. 100 mm)	hould be c for specif G90F 30 lb (525 N/: 70 lb (480 65 lb	onsiderec ication B90F o./in. 100 mm)
	Note: The follow representative of purposes. Tape Type: Peel Adhesion: ASTM D3330 Anodized Aluminum Normal Tensile: ASTM D897 Aluminum T-block Dynamic Shear: ASTM D1002	ing tech r typical G11F 25 II (438 N/ 85 II (585 70 II (480 72°F 150°F	nical info only and B11F b./in. (100 mm) b./in. ² 5 kPa) b./in. ²	ormation a I should no G16F 30 II (525 N/ 80 II (550 70 II (480 2.2 1.1	nd data sl ot be used B16F b./in. 100 mm) o./in. ² kPa) o./in. ² kPa) lb./0.5 in. ² lb./0.5 in. ²	hould be c for specif G90F 30 lb (525 N/: 70 lb (480 65 lb	onsidered ication B90F o./in. 100 mm) o./in. ² kPa) o./in. ² kPa) cm ²)
	Note: The follow representative of purposes. Tape Type: Peel Adhesion: ASTM D3330 Anodized Aluminum Normal Tensile: ASTM D897 Aluminum T-block Dynamic Shear: ASTM D1002 Anodized Aluminum Static Shear: ASTM D3654 Stainless Steel -	ing tech typical G11F 25 II (438 N/ 85 II (585 70 II (480 72°F 150°F 200°F	nical info only and B11F b./in. '100 mm) b./in. ² 5 kPa) b./in. ² 5 kPa) (22°C) = (66°C) = (93°C)	ormation a I should no G16F 30 II (525 N/ 80 II (550 70 II (480 2.2 1.1	nd data sl bt be used B16F b./in. 100 mm) o./in. ² kPa) b./o.5 in. ² lb./0.5 in. ² lb./0.5 in. ²	hould be c for specif 30 lb (525 N/: 70 lb (480 65 lb (450 (1000 g/3.2 c	onsidered ication B90F o./in. 100 mm) o./in. ² kPa) o./in. ² kPa) cm ²) m ²) m ²)

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Available Sizes	Tape Type:	G11F	B11F	G16F	B16F	G90F	B90F
	Standard Length: 36 yds. (32.9 m)						
	Standard Width	: 1,	/2 in. (12	2 mm)	1 in.	(25 m	m)
		-	/8 in. (15			in. (30 m	-
		3,	/4 in. (20) mm)	1.5 ir	n. (35 m	m)
	Slitting Tolerand	e:	=	± 1/32 in.	(± 0.8 mn	n)	
	Core Size (ID):			3.0 in. (76.2 mm)		
Design Guidelines	Note: For tape a application shou Technical Service	ıld be rev	viewed by				
	Dynamic Loads:	design st Architect provides based or	trength o tural Pan a safety n materia	f 12 psi (8 el Tapes. factor of	5 kPa) is This desig at least 5 / testing a	used for a gn strengt and was as well as	ind loads, a 3M™ VHB™ th guideline established ASTM dynamic
	Static Loads:	with no i loads, a VHB™ Ar 1 lb load	mechanio design st rchitectur (60 cm ² constant	cal suppor rength of ral Panel ⁻ of tape po stress loa	t, snow lo 0.25 psi (Tapes. Thi er 1 kg loa	oads and 1.7 kPa) i is means ad) should	weight loads other long-terr s used for 3M™ 4 in ² of tape pe d be used to provides a
	Differential Movement:	moveme strain). T shear str tapes ca	ent up to This mear rain up to n tolerato 1.1 mm) t	3 times it ns 0.090" 0 0.27" (6. e shear st	s original (2.3 mm) 9 mm), 0. rain up to	thickness thick tap .062" (1.6 0.19" (4	erate shear 5 (300% shear es can tolerate 5 mm) thick 8 mm), and ar strain up to
	Force/Stress Types:	Panel Ta either sh stress or Applicati should b	pes, force near or te force to ions place e avoide	es acting nsile type be applie ing cleava	on the ta stress lo d over the ge or pee vill place t	pe should ads. This e entire t I type str	Architectural I consist of allows the ape area. ess on the tape s on the leading

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Application Guidelines	Application Review	Project applications with 3M [™] VHB [™] Architectural Panel Tapes should be reviewed by a 3M Architectural Market or 3M Technical Service Specialist. Typical applications include stiffener bonding, architectural panel bonding in curtain wall or cladding systems, break-metal bonding and decorative trim bonding. These tapes are not to be used for structural glazing applications.			
	Adhesion Testing	Adhesion testing should be conducted on project specific substrates to determine the most appropriate surface preparation method leading to high bond strength of the 3M [™] VHB [™] Architectural Panel Tape. Adhesion testing should be coordinated through a 3M Architectural Market Specialist. Adhesion test results will provide guidance on proper surface preparation methods, including cleaning and priming techniques, for project specific substrates and finishes.			
	Fabrication Guidelines	A shop work environment is most appropriate for bonding applications with 3M [™] VHB [™] Architectural Panel Tape. Tape application temperature should be at least 60°F (15°C). Field bonding may be considered if the exterior temperature meets this guideline. It is also important to provide adequate pressure to the tape after it has been applied to the first prepared substrate surface and after the two parts are joined together. A pressure of 15 psi (100 kPa) or greater should be applied over the whole tape area to facilitate good contact of the tape to both substrate surfaces. Rigid surfaces may require 2 or 3 times that much pressure to make the tape experience 15 psi (100 kPa). 3M Architectural Market or 3M Technical Service Specialists are available to provide training of operators for 3M [™] VHB [™] Architectural Panel Tape bonding applications.			
Shelf Life	3M [™] VHB [™] Architectural Panel Tapes have a shelf life of 24 months from date of shipment when stored at 40°F to 100°F (4°C to 38°C) and 0-95% relative humidity. The optimum storage conditions are 72°F (22°C) and 50% relative humidity.				
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.				

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Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.
Limited Warranty	3M warrants for 24 months from the date of shipment that 3M [™] VHB [™] Tape will be free of defects in material and manufacture. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limited warranty does not cover damage resulting from the use or inability to use 3M [™] VHB [™] Tape due to misuse, workmanship in application, or application or storage not in accordance with 3M recommended procedures. AN APPLICATION WARRANTY EXPRESSLY APPROVED AND ISSUED BY 3M IS AN EXCEPTION. THE CUSTOMER MUST APPLY FOR A SPECIFIC APPLICATION WARRANTY AND MEET ALL WARRANTY AND PROCESS REQUIREMENTS TO OBTAIN AN APPLICATION WARRANTY. CONTACT 3M FOR MORE INFORMATION ON APPLICATION WARRANTY TERMS AND CONDITIONS.
Limitation of Remedies and Liability	If the 3M [™] VHB [™] Tape is proved to be defective within the warranty period stated above. THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M [™] VHB [™] TAPE. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.

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