## **3M VHB<sup>™</sup> Tape** 5958FR

Technical Data			December, 2006	
Product Description	3M <sup>TM</sup> VHB <sup>TM</sup> Tape 5958FR is a double-coated 0.040 in. (1.0 mm) pressure sensitive adhesive tape for bonding a wide range of materials, including many metals, plastics and painted substrates. The foam is conformable to increase contac with the surfaces.			
Construction	Adhesive:		Modified Acrylic	
	Adhesive Carrier:		Acrylic Foam (closed cell)	
	Thickness:	0.040 in. (1.0 mm)		
	Density:	50 lb./ft. <sup>3</sup> (800 kg/m <sup>3</sup> )		
	Liner:	Red polyethylene film		
	Tape Color:		Black	
	polybrominated di		No polybrominated biphenyls (PBBs) or BDEs) are intentionally added.	
Typical Physical Properties and	Note: The following to	phenyl ethers (PI		
	Note: The following to	phenyl ethers (PI	BDEs) are intentionally added.	
Properties and Performance	Note: The following to or typical only a Peel Adhesion:	phenyl ethers (PI	BDEs) are intentionally added. on and data should be considered representativ used for specification purposes.	
Properties and Performance	Note: The following to or typical only a Peel Adhesion: (stainless steel) Normal Tensile:	phenyl ethers (PI	BDEs) are intentionally added. on and data should be considered representativ used for specification purposes. 20 lb./in. width (440 N/100 mm)	
Properties and Performance	Note: The following to or typical only a Peel Adhesion: (stainless steel) Normal Tensile: (aluminum T-block) Dynamic Shear:	phenyl ethers (PI	BDEs) are intentionally added. on and data should be considered representativ used for specification purposes. 20 lb./in. width (440 N/100 mm) 100 lb./in. <sup>2</sup> (690 kPa)	
Properties and Performance	Note: The following to or typical only a Peel Adhesion: (stainless steel) Normal Tensile: (aluminum T-block) Dynamic Shear: (stainless steel) Static Shear:	phenyl ethers (Pf echnical information and should not be 72°F (22°C) 158°F (70°C)	BDEs) are intentionally added. on and data should be considered representative used for specification purposes. 20 lb./in. width (440 N/100 mm) 100 lb./in. <sup>2</sup> (690 kPa) 100 lb./in. <sup>2</sup> (690 kPa) 1000 g/0.5 sq. in. (holds 10,000 min.) 350 g/0.5 sq. in. (holds 10,000 min.)	
Properties and Performance	Note: The following to or typical only a Peel Adhesion: (stainless steel) Normal Tensile: (aluminum T-block) Dynamic Shear: (stainless steel) Static Shear: (stainless steel,	phenyl ethers (PH echnical informatic and should not be 72°F (22°C) 158°F (70°C) 200°F (93°C)	BDEs) are intentionally added. on and data should be considered representative used for specification purposes. 20 lb./in. width (440 N/100 mm) 100 lb./in. <sup>2</sup> (690 kPa) 100 lb./in. <sup>2</sup> (690 kPa) 100 lb./in. <sup>2</sup> (690 kPa) 1000 g/0.5 sq. in. (holds 10,000 min.) 350 g/0.5 sq. in. (holds 10,000 min.) 250 g/0.5 sq. in. (holds 10,000 min.)	
Properties and Performance	Note: The following to or typical only a Peel Adhesion: (stainless steel) Normal Tensile: (aluminum T-block) Dynamic Shear: (stainless steel) Static Shear: (stainless steel, Solvent Resistance:	phenyl ethers (PH echnical information and should not be 72°F (22°C) 158°F (70°C) 200°F (93°C) hce: tes, hours)	BDEs) are intentionally added. on and data should be considered representative used for specification purposes. 20 lb./in. width (440 N/100 mm) 100 lb./in. <sup>2</sup> (690 kPa) 100 lb./in. <sup>2</sup> (690 kPa) 100 lb./in. <sup>2</sup> (690 kPa) 1000 g/0.5 sq. in. (holds 10,000 min.) 350 g/0.5 sq. in. (holds 10,000 min.) 250 g/0.5 sq. in. (holds 10,000 min.)	

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5958FR

Burn Characteristics	• FAR 25.853 (a) 12 sec- Ver Part 1 (a) (ii)	Pass		
	<ul> <li>Toxicity Draeger Tube, ABD0031, AITM 3.005</li> <li>NBS Smoke Density after 4 minutes Ds@4.0 (Reference ABD0031 and BSS 7238)</li> </ul>		Pass Pass	
				• ASTM F814, ASTM E662 Flaming Mode (Typical criteria is Ds@4.0 = 200 max)
	Available Sizes	Standard Length:	36 yds. (32.9 m)	
	Minimum Width: 1/4 in. (6.4 mm			
	Slitting Tolerance: ± 1/32 in. (0.8 mm			
	Core Size (ID):	3.0 in. (76.2 mm)		
Application Guidelines	For maximum bond strength the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol* and water. Ideal tape application is accomplished wher temperature is between 70° and 100°F (21° and 38°C) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended.			
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Shelf Life

When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

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Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.
Limited Warranty	3M warrants for 24 months from the date of manufacture that 3M <sup>™</sup> VHB <sup>™</sup> 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 <sup>™</sup> VHB <sup>™</sup> Tape due to misuse, workmanship in application, or application or storage not in accordance with 3M recommended procedures.
Limitation of Remedies and Liability	If the 3M <sup>™</sup> VHB <sup>™</sup> 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 <sup>™</sup> VHB <sup>™</sup> 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.



## Industrial Business Industrial Adhesives and Tapes Division

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