3M VHBTM Acrylic Foam Tapes 4930-4945-4950-4959

Description	3M VHB TM Acrylic Foam Ta	pes 4930, 4945, 4950 and 4959 are double	
		esive tapes for bonding a wide range of hig	
	and medium surface energy substrates including metals, glass and some plastics. The firm foam provides superior strength in applications		
	Features	• Excellent adhesion to hig	h surface energy surfaces
• Flexible to conform to irr		egular surfaces	
• Cushions and damps vibr		ation	
• High dynamic shear resis			
• For interior and exterior			
Physical Propertie	es/Typical Performance Charact	eristics*	
	Tape carrier	Firm acrylic foam (closed cell)	
	Adhesive	4930, 4950, 4959 Firm Acrylic	
		4945 Medium Acrylic	
	Tape colour	White	
	Tape Thickness	4930 0.64mm	
		4950, 4945 1.1mm	
		4959 3.0mm	
	Liner	4930,4945, 4950 White printed paper	
		4959Red polyethylene film	
	Foam density	4930, 4945 4950 800kg/m ³	
		4959 720kg/m ³	
	90^0 Peel adhesion	4930 350N/100mm	
		4945, 4950 440N/100mm	
		4959 350N/100mm	
	Normal Tensile	4930 1100kPa	
		4945, 4950 970kPa	
		4959 520kPa	
	Dynamic shear	4930 690kPa	
		4945, 4950 550kPa	
	0	4959 380kPa	
	Static Shear	$\frac{22^{\circ}C}{1500} = \frac{66^{\circ}C}{500} = \frac{93^{\circ}C}{500} = \frac{121^{\circ}C}{177^{\circ}C}$	
	4930 4945, 4950 4959	1500g 500g 500g 1500g 1000g 750g 750g 750g 750g	
	4959	1500g 1000g 750g 750g 750g	
	Temperature 4930, 4945	Short term 149 [°] C	
	Resistance 4950	Long term $93^{\circ}C$	
	4959	Short term $204^{\circ}C$	
		Long term $149^{\circ}C$	
	UV resistance	Excellent	
	Solvent resistance	High	
	*Not recommended for specification		

Test Methods

Normal Dynami	Adhesion: Stainless Steel, 72 hours dwell, Peel speed 305mm/min Tensile: Stainless Steel, 6.45cm ² , 72 hours dwell, Jaw speed 50mm/min c Shear: Stainless Steel, 6.45cm ² , 72 hours dwell, Jaw speed 12.7mm/min hear: Weight(grams) that 3.23cm ² will hold 10,000 minutes (7 days) at stated	
tempera Format	4930 Available in 12.7mm, 19mm and 25.4mmx 66m rolls 4945 Available in 12.7mm, 19mm, 25.4mm and 50.2mm x 33m rolls 4950 Available in 12.7mm, 19mm and 25.4mm x 33m rolls 4959 Available in 12.7mm, 19mm and 25.4mm x 33m rolls	
Application Technique	 Apply between 10°C and 40°C. Ensure surfaces to be bonded are clean, dry and well unified. Most substrates can be cleaned by wiping (in one direction) with a 50/50 IPA/Water mixture. Where heavy grease or oils are present, 3M Citrus Cleaner or White Spirits should be used to remove the grease. This should always be followed by a wipe with the IPA/Water mixture to remove any residue. Abrasion or scuffing may enhance adhesion by increasing the surface area. Always follow with a wipe with IPA/Water to remove any residue. Firm application pressure helps develop better adhesive contact and improves bond strength. 	
Application ideas	 Bond metals in truck and trailer assembly Bond handles to glass Attaching signs, nameplates and plaques Bond signs to frames Attach stiffeners in air conditioners 	
Testing	Always test the suitability of the product for your application before use.	
Shelf life	Store in a dry location out of direct sunlight and away from all sources of heat. Ideal conditions are 20°C and 50% relative humidity. Use within 24 months from date of manufacture.	
Health and Safety Information	This product is an "article" and does not require a Material Safety Data Sheet. However MSDSs have been produced for most articles and may be accessed by going to www.3m.com/msds and entering the product number or 3M stock number. Alternatively, contact 3M Customer Services.	
Further information	Further information is available at www.3m.com or by contacting 3M Customer Services on Free Phone 0800 200 713 or Free Fax 0800 508 980.	
Note	The user is responsible for determining whether the 3M product, surface preparation, and method of assembly are suitable for their particular purpose. Failure to determine the suitability of all factors involved in the application may result in bond failure.	

3M

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