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<mark>3M</mark> VHB[™] GPH Series

Product Data Sheet

September 2018 Supersedes: February 2017

Product Description	3M [™] VHB [™] GPH Series, a general purpose, high temperature, grey conformable double coated acrylic foam tape with a high initial tack and a soft foam. Available in three different thicknesses with a
	3M branded red siliconised polyethylene film liner.

Key Features

- Double coated acrylic foam tape
- 100 % closed cell acrylic foam
- High temperature performance (short term 230 °C)
- Good balance of high temperature and peel & shear performance
- High initial tack
- Soft foam enables stress relaxation & an easy application
- Good sealing properties
- For indoor and outdoor applications

Applications & Benefits

- Its temperature performance enables bonding of materials in applications with high operating temperatures such as prior to processing in a powder coating line
- Capability to bond to a variety of substrates makes it a good fit for multi material bonding - those substrates have a high or medium surface energy including many metals (e.g. stainless steel) and plastics (e.g. Polyamide, PMMA, ABS)
- For applications in metal working, signage, appliances and specialty vehicle

Physical Properties GPH-060GF GPH-110GF GPH-160GF Adhesive Acrylic foam adhesive Туре Thickness acc. to ASTM D-3652 0.60 mm 1.10 mm 1.60 mm Foam 710 kg/m³ Density Release 3M branded red siliconised polyethylene film Liner Tape Colour Grey

VHB™ GPH Series September 2017

Performance Characteristics	Туре	GPH- 060GF	GPH- 110GF	GPH- 160GF	
	90 ° Peel adhesion to	00001	IIIGI	10001	
	Stainless Steel acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT	25 N/cm	37 N/cm	34 N/cm	
	dwell 90 ° Peel adhesion to PA6 acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell	33 N/cm	48 N/cm	55 N/cm	
	90 ° Peel adhesion to ABS acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell	21 N/cm	33 N/cm	32 N/cm	
	90 ° Peel adhesion to PMMA acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell	21 N/cm	34 N/cm	37 N/cm	
	Dynamic Shear acc. to ASTM D1002 on stainless steel, after 72h @ RT dwell	547 N/6.54 cm²	476 N/6.54 cm²	375 N/6.54 cm²	
	Static Shear Strength acc. to ASTM D3654, after 72h @ RT dwell (Weight held for 10.000 minutes to stainless steel, 3.32cm ² (0.5in ²)		23 °C - 1000 g 150 °C - 500 g		
	Normal Tensile (T-Block) acc. to ASTM D897 to Aluminium @ RT, after 72h @ RT dwell, 6.45 cm ² , test speed 50 mm/min	410 N/6.54 cm²	439 N/6.54 cm²	470 N/6.54 cm²	
	TemperatureShort term (minutes, hours): 230 °CPerformanceLong term (days, weeks): 150 °C				
Application Temperature	Ideal application temp sensitive adhesives u area. Low Temperature App 3M ™ VHB™ GPH Ta using 3M Adhesion P To obtain good perfor important to ensure th condensed moisture.	plication: ape be applied a romoter AP111 o	to achieve substra It 10 °C and down or Primer 94 M™ VHB™ Tape	ate contact to 5 °C when es, it is	
Shelf Life	24 months from date of production when stored at 16 °C – 25 °C and 40-65 % relative humidity. Performance of tapes is not projected to change even after shelf life expires; however, 3M does suggest that 3M [™] VHB [™] Tapes are used prior to the shelf life date whenever possible.				

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