 **TM VHB GPH Series**

**Техническая информация**

**Август 2017**

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| **Описание продукта** | 3M™ VHB™ GPH серия лента общего назначения, высокотемпературная, серая, двухсторонняя клейкая вспененная лента с высокой начальной адгезией и мягкой основой. Доступна в трех различных толщинах с красным силиконизированным полиэтиленовым лайнером |
| **Основные свойства** | * Вспененная двухсторонняя акриловая лента * На 100% состоит из вспененного акрила с закрытыми ячейками * Выдерживает высокие температуры (до 230° C кратковременно) * Отличный баланс высокотемпературных и адгезионных свойств * Высокая начальная адгезия * Мягкая вспененная основа обеспечивает отличную компенсацию напряжений в конструкции и легкое нанесение * Хорошие герметизирующие свойства * Прекрасно работает как внутри так и снаружи помещения |
| **Применения и преимущества** | * Способность ленты выдерживать высокие нагрузки позволяет использовать ее в применениях требующих большой температуростойкости, таких как склейка перед порошковой окраской. * Лента может склеивать широкий спектр материалов, среди которых как металлы так и средне или высокоэнергетические пластики (полиамиды, акриловое стекло, АБС пластики) * For applications in metal working, signage, appliances and specialty vehicle Лента может использоваться в металлообработке, изготовлении рекламных вывесок и конструкций, сборке бытовой техники и в специальном транспорте. |

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|  | **GPH-060GF** | **GPH-110GF** | **GPH-160GF** |
| **Адгезив**  Вспененный акрил | | | |
| **Толщина**  По ASTM D-3652 | 0.60 мм | 1.10 мм | 1.60 мм |
| **Плотность вспененной основы** | 710 кг/м³ | | |
| **Защитный лайнер** | Брендированный силиконизированный полиэтиленовый красный лайнер | | |
| **Цвет ленты** | Серый | | |

**Физические свойства**

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| **Типи испытания** | GPH-110GF |
| **90° Отрыв от нержавеющей стали**  По ASTM D3330, 90° угол при комн темп, после 72 часов выдержки | 39 Н/см |
| **90° Peel adhesion to Polyamide 6**  acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell | 48 N/cm |
| **90° Peel adhesion to ABS**  acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell | 33 N/cm |
| **90° Peel adhesion to PMMA**  acc. to ASTM D3330, 90° peel angle @ RT, after 72h @ RT dwell | 34 N/cm |

**Основные характеристики**

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3M™ VHB™ GPH-110GF

July 2016

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| **Type** | GPH-  060GF | GPH-  110GF | GPH-  160GF |
| **Dynamic Shear**  acc. to ASTM D1002 on stainless steel, after 72h @ RT dwell | 559 N/  6.54 cm² | 476 N/  6.54 cm² | 387 N/  6.54 cm² |
| **Static Shear Strength**  acc. to ASTM D3654, after 72h @ RT dwell (Weight held for 10.000 minutes to stainless steel, 3.32cm² (0.5in²) | 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 cm², test speed 50  mm/min | 399 N/  6.54 cm² | 438 N/  6.54 cm² | 454 N/  6.54 cm² |
| **Temperature Performance** | Short term (minutes, hours): 230° C Long term (days, weeks): 150° C | | |

**Performance**

**Characteristics**

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| **Application**  **Temperature** | Ideal application temperature range is 21 °C to 38 °C. Pressure sensitive adhesives use viscous flow to achieve substrate contact area. To obtain good performance with all 3M™ VHB™ Tapes, it is important to ensure that the surfaces are clean, dry and free of condensed moisture. |
| **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. |

**Important Notice** 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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.

This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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