

March, 2008

3M™ Low VOC Double Coated Tape 9599

Product Description

3M™ Low VOC Double Coated Tape 9599 has a non-woven tissue carrier with acrylic adhesive on both sides. It provides high adhesion to a wide variety of materials and is suitable for automobile interior applications



Product Features

- VOC analysis (micro g / pcs): measured at external organization which is approved by AOEM.

Formaldehyde: 0.07

Acetaldehyde: 0.07

Toluene: 0.11

Xylene: 0.02

Ethylbenzene: ND

Stylene: ND

Tetradecane: 0.03

Dibutyl phthalate: ND

Di-2-ethylhexyl phthalate: ND

Sample Size: 80mm x 100mm/pcs

Dwell Temp.: 149°F (65°C)

Dwell Time: 120 minutes

Gas trapping volume: 4L with Tedlar bag

Absorption pipe: Tenax-TA, DNPH cartridge

Absorb air in tedlar bag with each absorption pipe after heating and measure with gas chromatograph mass spectrometer or high speed liquid chromatograph.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Available Sizes

Property	Values		Notes	Attribute Modifier
Note	Subject to Minimum Order Requirements			
Maximum Length	10 to 100 yd			
Available Width	1 to 40 in			
Normal Slitting Tolerance	1/16 in			
Precision Slitting Tolerance	-0 to + 1/16 in		Precision slitting is available on select products with minimum order of full web increments.	
Core Size	76.2 mm	3 in		ID

Typical Performance Characteristics

90° Peel Adhesion		Attribute Modifier	Dwell/Cure Time	Dwell Time Units	Environmental Condition	Substrate	Backing
96 oz/in		Faceside	72	hr	52%RH	Stainless Steel	2 mil PET
70 oz/in	46 oz/in	Faceside	Initial			Stainless Steel	2 mil PET
57 oz/in		Backside	Initial			Stainless Steel	2 mil PET
91 oz/in		Faceside	72	hr	52%RH	ABS	2 mil Aluminum Foil
57 oz/in		Faceside	72	hr	52%RH	Polypropylene (PP)	2 mil PET

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Temp C: 22C
 Temp F: 72F
 notes: 12 in/min (300 mm/min)

3M™ Low VOC Double Coated Tape 9599

Handling/Application Information

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength. 15 psi momentary pressure is typical.

Ideal tape application temperature range is 70°F to 100°F (21°C to 37°C). Initial tape application to surface at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once applied, low temperature holding is generally satisfactory. Surfaces should be clean and dry prior to bonding. We recommend a final surface cleaning with a mixture of 50% isopropyl alcohol and water.

Note: Carefully read and follow the manufacturer's precautions and directions for use when using cleaning solvents.

Storage and Shelf Life

Store under normal conditions of 70°F (21°C) and 50% relative humidity in the original carton. To obtain best performance, use this product within 24 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Double-Coated-Tape-9599?N=5002385+3291148836&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9599

ISO Statement

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

Information

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

