

BIBLIOGRAPHY OF TAPE LITERATURE – May 2012

- 1) Agron, N., and Schechter, B., "Physical Comparisons and Some Characteristics of Electrical Tape," *AFTE Journal*, 18 (31), 1986, pp. 53-59.
- 2) Bakowski, N.L., Bender, E.C., and Munson, T.O., "Comparison and Identification of Adhesives Used in Improvised Explosive Devices by Pyrolysis-Capillary Column Gas Chromatography-Mass Spectrometry," *J. Anal. & Appl. Pyrol.*, 8, 1985, pp. 483-492.
- 3) Benson, J.D., "Forensic Examination of Duct Tape," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA. July 31-Aug 2, 1984, pp. 145-146.
- 4) Blackledge, R.D., "Tapes with Adhesive Backing; Their Characterization in the Forensic Science Laboratory," *Conference Proceeding, Appl. Polym. Anal. Char.*, 1987, pp. 413-21.
- 5) Blackledge, R.D., "Comparison of Masking Tapes by Fluorescence Spectroscopy," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA. July 31-Aug 2, 1984, pp. 135.
- 6) Bradley, M.J., Keagy, R.L., Lowe, P.C., Rickenback, M.P., Wright, D.M., and LeBeau M.A., "A Validation Study for Duct Tape End Matches," *J. For. Sci.*, 51, 2006, pp. 504 – 508.
- 7) Bradley, M.J., Gauntt, J.M., Mehlretter, A.H., Lowe, P.C., and Wright, D.M., "A Validation Study for Vinyl Electrical Tape End Matches," *J. For. Sci.*, 56, 2011, pp. 606 - 611.
- 8) Carraher, C.E. Jr., *Editor, Polymer Chemistry - An Introduction, 4th Edition*. Marcel and Dekker, Inc. New York, NY, 1996.
- 9) Choudhry, M.Y., and Whritenour, R.D., "A New Approach to Unraveling Tangled Adhesive Tape for Potential Detection of Latent Prints and Recovery of Trace Evidence," *J For Sci*, 35, 1990, pp. 1373-1383.
- 10) Coates, J., and Reffner, J., "Visualization of Micro-ATR Infrared Spectroscopy," *Spectroscopy*, 14, 1999, pp. 34-45.
- 11) Courtney, M., "Evidential Examinations of Duct Tape," *SWAFS Journal*, 16, 1994, pp. 10-16.
- 12) Dietz, M.E., Stern, L.A., Mehlretter, A.H., Parish, A., McLasky, V., and Aranda, R., "Forensic Utility of Carbon Isotope Ratio Variations in PVC Tape Backings," *Science and Justice*, accepted for publication, DOI: 10.1016/j.scijus.2011.05.003.

- 13) Dobney, A.M., Wiarda, W., de Joode, P., and van der Peijl, G., "Sector Field ICP-MS Applied to the Forensic Analysis of Commercially Available Adhesive Packaging Tapes," *J. Analytical Atomic Spectroscopy*, 17, 2002, pp. 478-484.
- 14) Fanconi, B.M., "Trends in Polymer Development and Analytical Techniques," *Proceedings Inter. Sym. on Analysis and ID of Polymers*, FBI Academy, Quantico, VA. July 31-Aug 2, 1984, pp. 87.
- 15) Goodpaster, J.V., Sturdevant, A., Andrews, K., and Brun-Conti, L., "Identification and Comparison of Electrical Tapes Using Instrumental and Statistical Techniques: I. Microscopic Surface Texture and Elemental Composition," *J. For. Sci.*, 52, 2007, pp. 610-629.
- 16) Goodpaster, J.V., Sturdevant, A., Andrews, K., Brinley, E, and Brun-Conti, L., "Identification and Comparison of Electrical Tapes Using Instrumental and Statistical Techniques: II. Organic Composition of the Tape Backing and Adhesive," *J. For. Sci.*, 54, 2009, pp. 328-338.
- 17) Hemsley, D.A., *The Light Microscopy of Synthetic Polymers*. Royal Microscopical Society - Microscopy Handbook 07, Oxford University Press, NY, 1984.
- 18) Hobbs, A.L., Gauntt, J.M., Keagy, R.L., Lowe, P.C., and Ward, D.C, "A New Approach for the Analysis of Duct Tape Backings," *Forensic Science Communications*, 9 (1), 2007.
- 19) Hobbs, A.L., Bradley, M.J., Gauntt, J.M., Ward, D.C., and LeBeau, M.A., "Use of a Database for Significance Assessment and Sourcing of Duct Tapes," *Proceedings of the 58th Annual Meeting of the American Academy of Forensic Sciences*, Seattle, WA February 20 – 25, 2006, p. 102.
- 20) Jenkins Jr., T.L., "Elemental Examination of Silver Duct Tape Using Energy Dispersive X-ray Spectrometry," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA, July 31-Aug 2, 1984, pp. 147-149.
- 21) Johnston, J., *Pressure Sensitive Adhesive Tapes - A Guide to their Function, Design, Manufacture and Use*. Pressure Sensitive Tape Council, Northbrook, IL. 2003.
- 22) Johnston, J. and Serra, J., "The Examination of Pressure Sensitive Adhesive Tapes," *IAMA Newsletter*, 5, 2005, pp. 19-31.
- 23) Kee, T.G., "The Characterization of PVC Adhesive Tape," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA, July 31-Aug 2, 1984, pp. 77-85.
- 24) Keto, R.O., "Forensic Characterization of Black Polyvinyl Chloride Electrical Tape," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA. July 31-Aug 2, 1984, pp. 137-143.

- 25) Mathias, L. J., "Fundamentals of the Polymer Chemistry of Acrylics and Vinyls," *Proceedings of the International Symposium on the Analysis and Identification of Polymers*, FBI Academy, Quantico, VA. July 31-Aug 2, 1984, pp. 25.
- 26) Maynard, P., Gates, K., Roux, C., and Lennard, C., "Adhesive Tape Analysis: Establishing the Evidential Value of Specific Techniques," *J. For. Sci.*, 46, 2001, pp. 280-287.
- 27) Mehlretter, A.H., Bradley, M.J., and Wright, D.M., "Analysis and Discrimination of Electrical Tapes: Part 1. Adhesives," *J. For. Sci.*, 56, 2011, pp. 82-94.
- 28) Mehlretter, A.H., Bradley, M.J., and Wright, D.M., "Analysis and Discrimination of Electrical Tapes: Part II. Backings," *J. For. Sci.*, accepted, estimated publication November 2011.
- 29) Merrill, R.A., and Bartick, E.G., "Analysis of Pressure Sensitive Adhesive Tape: I. Evaluation of Infrared ATR Accessory Advances," *J. For. Sci.*, 45, 2000, pp. 93-98.
- 30) Merrill, R.A., Bartick, E.G., "Advances of Infrared ATR Analysis of Duct Tape," *Proceedings of the 51st Annual Meeting of the American Academy of Forensic Sciences*, Orlando FL, February 15 - 20, 1999, p 22.
- 31) Neel, N. and McIntyre, A., "The Effects of Cyanoacrylate Fuming and Fluorescent Dye Staining on Forensic Tape Analysis," *ASTEE Journal*, 1(2), 2010 pp. 127-136.
- 32) Noble, W., Wheals, B.B. and Whitehouse, M.J., "The Characterization of Adhesives by Pyrolysis Gas Chromatography and Infrared Spectroscopy," *Forensic Science*, 3, 1974, pp. 163-174.
- 33) Pizzi, A., Mittal, K.L., Editors, *Handbook of Adhesive Technology*, Marcel Dekker, Inc. New York, NY, 1994.
- 34) Rappe, R., "Measurement of the Principle Refractive Indices of Oriented Polymer Films," *The Microscope*, 35, 1987, pp. 67-82.
- 35) Rappe, R., "Microscopical Examination of Polymer Films," *Presented at the INTER/MICRO*, Aug 19-21, 1991, Chicago, IL.
- 36) Randle, W.A., "Microscopical Examination of Duct Tape Adhesive Fillers," *Presented at INTER/MICRO*, June 2004, Chicago, IL.
- 37) Rogers, B., "Clear Adhesive Tape Analysis Using Polarizing Light Techniques: the Megascop," *IAMA Newsletter*, 4(2), 2004 pp. 11-13.
- 38) Sakayanagi, M., Konda, Y., Watanabe, K., and Harigaya, Y., "Identification of Pressure Sensitive Adhesive Polypropylene Tape," *J. For. Sci.*, 48, 2003, pp. 68-76.
- 39) Satas, D., Editor, *Handbook of Pressure-Sensitive Adhesive Technology*. Van Norstrand Reinhold Co., New York, NY, 1996.

- 40) Sclademan, J.A., "Tackifiers and Their Effect on Adhesive Curing," *Adhesive Age*, Sept. 1997 pp. 24-26.
- 41) Smith, J., "Forensic Examinations of Pressure Sensitive Tape," *Forensic Analysis on the Cutting Edge - New Methods for Trace Evidence Analysis*. Blackledge, R.D., Editor Wiley and Sons Inc. 2007, Chapter 12, pp. 291 – 332.
- 42) Smith, J., "The Forensic Value of Duct Tape Comparisons," *Midwestern Association of Forensic Scientists Newsletter*, 27 (1), 1998, pp. 28-33. REPRINTED in CACNews, Third Quarter, 1998, pp. 14-17.
- 43) Smith, J., and Weaver, R., "PLM Examinations of Clear Polymer Films," *The Microscope*, 52, 2004, pp 113-118.
- 44) Snodgrass, H., "Duct Tape Analysis as Trace Evidence," *Proceedings of the International Symposium on Trace Evidence*, FBI Academy, Quantico, VA. June 1991, pp. 69-73.
- 45) Stein, R.S., "Measurement of Birefringence of Biaxially Oriented Films," *J Polymer Sci*, 24, 1957, pp. 383 -386.
- 46) Stoeffler, S., "The Use of Microscopical Methods for Characterization and Failure/Contamination Analysis of Adhesive Tapes," *Proceedings of the Pressure Sensitive Tape Council TECH XX*, Atlanta, GA, May 1-3, 2002.
- 47) Tsach, T., Wiesner, S., and Shor, Y., "Empirical Proof of Physical Match: Systematic Research with Tensile Machine," *For Sci Int*, 166, 2007, pp. 77 – 83.
- 48) Teetsov, A., and Stellmack, M.L., "Hand-sectioning and Identification of Pressure-Sensitive Tapes," *Proceedings of the Pressure Sensitive Tape Council TECH XXVII*, Orlando, FL, May 12-14, 2004.
- 49) Wampler, R.P and Zawodny, C.P, "Analysis of Polymer Packaging Products Using Pyrolysis Gas Chromatography Mass Spectrometry," *CDS Analytical*, September 1999, pp. 31-32.
- 50) Wampler, R.P and Phair, M., "Analysis of Rubber Materials by Pyrolysis GC," *Rubber World*, February 1997, pp. 30-34.
- 51) Weimar, B., "Physical Match Examinations of Adhesive PVC-Tapes: Improvement of the Conclusiveness by Heat Treatment," *AFTE Journal*, 40, 2008, pp. 300-302.
- 53) Williams, E.R., and Munson, T.O., "The Comparison of Black Polyvinylchloride (PVC) Tapes by Pyrolysis Gas Chromatography," *J. For. Sci.*, 33, 1988, pp. 1163-1170.
- 54) Scientific Working Group for Materials Analysis (SWGMAT) Guidelines for tape analysis can be found at: www.SWGMAT.org

- “Guideline for Assessing Physical Characteristics in Forensic Tape Examinations, Scientific Working Group on Materials Analysis (SWGMA T), Online, Available: <http://swgmat.org/Tape%20Physical%20Characteristics%20guideline.pdf>, 07 September 2011.
- “Guideline for the Forensic Examination of Pressure-Sensitive Tapes”, Scientific Working Group on Materials Analysis (SWGMA T), Online, Available: <http://swgmat.org/Pressure%20Sensitive%20Tape%20guideline.pdf>, 07 September 2011.
- “Guideline for Using Fourier Transform Infrared Spectroscopy in Forensic Tape Examinations, Scientific Working Group on Materials Analysis (SWGMA T), Online, Available: <http://swgmat.org/Tape%20FTIR%20guideline.pdf>, 07 September 2011.
- “Guideline for Using Light Microscopy in Forensic Examinations of Tape Components, Scientific Working Group on Materials Analysis (SWGMA T), Online, Available: <http://swgmat.org/Tape%20Light%20Microscopy%20guideline.pdf>, 07 September 2011.
- “Guideline for Using Scanning Electron Microscopy/Energy Dispersive X-ray Spectroscopy in Forensic Tape Examinations”, Scientific Working Group on Materials Analysis (SWGMA T), Online, Available: <http://swgmat.org/Tape%20SEM%20guideline.pdf>, 07 September 2011.