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References

- Heywood D. Textile Finishing. Society of Dyers and Colourists, Bradford, 2003.
- Schindler WD, Hauser PJ. Chemical Finishing of Textiles. Woodhead Publishing in Textiles, 2004.
- Wahle B, Falkowski J. Softeners in textile processing. Part 1: An overview. Review of Progress in Coloration 2002; 32: 118–124.
- 4. Hong J, Jayaraman S. Friction in textiles. *Textile Progress* 2003; 34 (1/2).
- 5. Dockery A. American Textiles International 1988; 17(12): 40.
- Kawabata S. The Standardization and Analysis of Hand Evaluation. 2nd edition. The Hand Evaluation and Standardization Committee, the Textile Machinery Society of Japan, July 1980.
- Postle R, Kawabata S, Niwa M, Mahar TJ. Textile Machinery: Investing for the Future. Textile Institute, Manchester, 8. 1982

- Drumright RE, Gruber PR, Henton DE. Polylactic acid technology. Advanced Materials 2000; 12(23): 1841–1846.
- Dugan JS. Novel Properties of PLA Fibers. Research Fiber Innovation Technology, Inc., INTC 2000, Texas, USA, 2000. Available at: http://www.fitfibers.com/ publications.htm.
- Sawyer DJ. PLA technology and applications. Nonwovens World 2001; 10(2): 49–53
- Jacobsen S, Degée P, Fritz HG. Polylactide (PLA) a new way of production. Polymer Engineering and Science 1999; 39(7): 1311–1319.
- Blackburn RS. Biodegradable and Sustainable Fibres. Woodhead Publishing Limited, 2005.
- 13. Slade PE. *Handbook of Fiber Finish Technology*. Marcel Dekker Inc., 1998.
- Avinc O, Wilding M, Gong H, Farrington D. Effects of softeners and laundering on the handle of knitted PLA filament fabrics. Fibers and Polymers 2010; 11(6): 924–931.
- DyStar Plc, IngeoTM Fiber Coloration Pack. DyStar Textilfarben GmbH & Co. Deutschland KG, 2004. Available at: www.natureworksllc.com, accessed November 2010
- Avinc O, Bone J, Owens H, Phillips D, Wilding M. Preferred alkaline reduction-

- clearing conditions for use with dyed Ingeo poly(lactic acid) fibres. *Coloration Technology* 2006; 122: 157–161.
- Shore J. Colorants and Auxiliaries, Organic Chemistry and Application Properties.
 2nd edition. Volume 2: Auxiliaries.
 Society of Dyers and Colourists, 2002.
- Bereck A, Riegel D, Matzat A, Habereder P, Lautenschlager H. Silicones on fibrous substrates: Their mode of action. AATCC Review 2001; January: 45–49.
- Kut D, Gunesoglu C, Orhan M. Determining suitable softener type for 100% PET woven fabric. AATCC Review 2005; 5: 16–19.
- Hasani H. Effect of the different processing stages on mechanical and surface properties of cotton-knitted fabrics. *Indian Journal of Fiber & Textile Research* 2010; 35: 139–144.
- Habereder P, Bereck A. Softeners in textile processing. Part 2: Silicone softeners. Review of Progress in Coloration and Related Topics 2002; 32: 125–137.
- 22. Habereder P. In: 28th Aachen Textile Conference 2001; 2002: 94–104.
- Schindler W, Hauser P. Chemical finishing of textiles: soft-handle finish. *ITB International Textile Bulletin* 2003; 4: 72–79.
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- Andrzej K. Błędzki 'Cellulose fibres substitude of glassfibres in biocomposites'
- Danuta Ciechańska 'Biomass as a source of functional polymeric materials'
- Zbigniew Floriańczyk 'Polimeric materials on the basis of unorganic-organic polymers'
- Andrzej Gałęski 'Composites and nanocomposites on the basis of polilactide'
- Marek Kowalczuk 'Synthesis and properties of biodegradable poli(ester-urethanes) and their application'

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