References

[1] V. J. Kira KRIKŠTANAVIČIENĖ ∗Sigitas STANYS, "Dependence of Polypropylene Yarn Mechanical Properties," vol. 20, no. 3, 2014 .

[2] J. E. McIntyre, Synthetic Fibres, Woodhead Publishing, 29th October 2004.

[3] P. R. Sahas Bansal, "Review_on_the_Manufacturing_Processes_of_Polyester-PET_and_Nylon-6_Filament_Yarn," *International Journal on Textile Engineering and Processes,* vol. 2, no. 3, p. 23, August 2016.

[4] A. D. R. Alagirusamy, "Yarns: Production, processability and properties," *Fibrous and Composite Materials for Civil Engineering Applications ,* 2011.

[5] "Synthetic Fibers Market Size, Share & Trends Analysis Report By Product (Polyester, Nylon, Acrylics), By Application (Clothing, Home Furnishing), By Region (APAC, North America), And Segment Forecasts, 2021 - 2028," Synthetic Fibers Market Growth Analysis Report.

[6] *. C. C. 1. J. H. 1. L. G. 1. Steven T. Patton 1, "Characterization of Thermoplastic Polyurethane (TPU) and Ag-Carbon Black TPU Nanocomposite for Potential Application in Additive Manufacturing," *polymers,* 2016.

[7] A. M. S. Moon W. Suh, "Static generation and dissipation of polyester continuous filament yarn," *Journal of the Textile Institute,* 2009.

[8] G. W. Carwyn James Webb, "The Influence of Yarn Count on the Splicing of Simple Continuous Filament Synthetic Yarns," *Textile Research Journal,* February 2009.

[9] D. F. Iulian Mancasi, "Analysis of lubricants used for spinning of polyester filament yarns," *Industria Textilă ,* pp. 283-286, January 2014.

[10] S. H. P. B. B.A. Knight, "Moisture Characteristics of Some Knit Fabrics Made From Blend Yarns," *Textile Research Journal,* September 1, 1970 .

[11] S. I. ,. R. R. B.R. Das, "Static and Dynamic Tensile Behaviour of Spun Yarns: A Critical Review," *Research Journal of Textile and Apparel,* November 2011.

[12] S. Z. N. P. Jun Lang, "Frictional Behavior of Synthetic Yarns During Processing," *Textile Research Journal,* December 1, 2003 .

[13] P. D. B. Bestem Esi, "Investigation of tensile strength and elongation properties of chenille upholstery fabrics including recycling polyester yarns," *Jounal of Engineered Fibers and Fabrics,* April 27, 2020 .

[14] R. A. P. Lingxue Kong, "Effects of Fiber Opening on the Uniformity of Rotor Spun Yarns," *Textile Research Journal 6,* pp. 30-36, January 1996.

[15] P. J. S. Darshil U Shah, "Modelling the effect of yarn twist on the tensile strength of unidirectional plant fibre yarn composites," *Journal of Composite Materials ,* February 2013.

[16] P. S. S. Mishu Zeidman, "Influence of Fiber Length Distribution on Strength Efficiency of Fibers in Yarn," *Textile Research Journal ,* pp. 216-220, March 2002.

[17] F. M. Nazanin Ezazshahabi, "Crimp Analysis of Worsted Fabrics in the Terms of Fabric Extension Behaviour," *Fibers and Polymers ,* pp. 1211-1220, June 2014.

[18] A. D. Nimisha Baheti, "The Effect of Moisture Content on Yarn Properties and Knitability," *Journal of the Textile Association,* January 2018.

[19] F. Shi, "Modeling Stretching-Relaxation Properties," 2007.

[20] A. A. R. Senthil Kumar, "DETAILED STUDY ON IMPACT OF AGEING USING VACUUMIZED STEAM ON YARN QUALITY," *International Journal Of Advance Research And Innovative Ideas In Education ,* March 2017.

[21] F. B. E. G. A Engelbrecht-Wiggans1, "Effects of temperature and humidity on high-strength p-aramid fibers," 2015.

[22] c. a. M. v. E. E. J. v. K. M. J. J. D. V. P. G. a. A. C. L. M. v. d. W. S. Chabba, "Accelerated aging study of ultra high molecular weight polyethylene yarn and unidirectional composites for ballistic applications," *Journal of Materials Science,* p. 2891–2893, 2007 Apr 1.

[23] c. a. M. v. E. E. J. v. K. M. J. J. D. V. P. G. a. A. C. L. M. v. d. W. S. Chabba, "Accelerated aging study of ultra high molecular weight polyethylene yarn and unidirectional composites for ballistic applications," *Journal of Materials Science,* p. 2891–2893, 2007.

[24] M. M. Zaman, "The effect of feeding speeds of elastomeric yarn on dimensional properties of single jersey knit fabric," January 2012.

[25] V. M. Mihaela Basu, "The research of knitting process and the needle failures," *Metalurgia International* , pp. 32-34, April 2010.

[26] P. R. Pawar Hemraj, "A study on improving the Knitting Machine Efficiency A study on improving the Knitting Machine Efficiency," March 2012.

[27] M. E. Z. M. Abdel-Megied, "The Effect of Machine Setting On Weft- Knitted Fabric Properties," *Journal of Textiles Coloration and Polymer Science* , pp. 83-96, December 2010.

[28] 1. A. E.-H. a. A. E.-D. A. Fouda, "Knitting Force Measurement on Flat Knitting Machines," *Joural of Textiles,* Volume 2014 .

[29] S. C. Ray, "Warp-knitted stitches and structures," *Fundamentals and Advances in Knitting Technology,* 2012.

[30] P. R. Pawar Hemraj, "A study on improving the Knitting Machine Efficiency A study on improving the Knitting Machine Efficiency," March 2012.

[31] K. w. Vidya Narayanan, "Visual knitting machine programming," *ACM Transactions on Graphics*, pp. 1-13, 2001.

[32] H. K. Park, "core-free thermoplastic polyurethane yarn formed with masterbatch and method for manufacturing same". United States Patent Application Patent 15/190503, 28 12 2017.

[33] H. Park, "Thermoplastic polyurethane compound composition for coated yarn and method for manufacturing coated yarn using the thermoplastic polyurethane compound". Patent US20140308454A1, 30 12 2011.

[34] A. G. N. E. K. A. H. F. Boubakri, "Study of UV-aging of thermoplastic polyurethane material," *Materials Science and Engineering A,* vol. 527, no. 7-8, pp. 1649-1654, 2010.

[35] F. P. C. D. S. R. La Mantia, "Recycling of dry and wet polyamide 6," *Journal of Applied Polymer Science,* vol. 86, no. 8, pp. 1899-1903, 2002.

[36] K. G. H. A.Boubakri, "Investigations on hygrothermal aging of thermoplastic polyurethane material," *Materials & Design,* vol. Volume 30, no. Issue 10, pp. 3958-3965, 2009.

[37] E. K. A. H. F. V. K. P. Guermazi N, "Tribological behaviour of pipe coating in dry sliding contact with steel," *Mater Design* , vol. 3094, no. 104, p. 30, 2009.

[38] L. A. Fiori, "Effects of Cotton Fiber Fineness on the Properties of Single Yarns," pp. 750-757, 2017.

[39] X. W. a. J. Y. Bin Ding, Electrospinning: Nanofabrication and Applications, 2019.

[40] R. Sinclair, Textiles and Fashion : Materials, Design and Technology, Elsevier Science, 2014.

[41] X. M. N.-l. C. Liu, "Effect of yarn parameters on the knittability of glass ply yarn," *Fibres and Textiles in Eastern Europe,* pp. 90-93, 2008.

[42] J. W. J. P. Jin, "On Yarn Unevenness Test and its Influence Factor Analysis," *Applied Mechanics and Materials,* pp. 460-464, 2012.

[43] I. Repository, "Yarn twist measurement using digital imaging," vol. 5000, 2010.

[44] G. S. Mengüç, "a research on yarn and fabric characteristics of acrylic/wool/angora blends," 2016.

[45] A. M. S. W. O. T. W. T. Moon W. Suh, "Static generation and dissipation of polyester continuous filament yarn," *Journal of the Textile Institute* , vol. 101, no. 3, pp. 261-269, 2010.

[46] G. A. Abou-nassif, "A Comparative Study between Physical Properties of Compact and Ring Yarn Fabrics Produced from Medium and Coarser Yarn Counts," vol. 2014, 2014.

[47] Ö. N. G. S. M. Özçelik Kayseri G, "Chapter 7: Analysis of Abrasion Characteristics in Textiles," *Abrasion Resistance of Materials* , January 2012 .

[48] J. Chakraborty, "Strength properties of fabrics: understanding, testing and enhancing fabric strength," *Understanding and Improving the Durability of Textiles*, 2012.

[49] G. Tyagi, "Yarn structure and properties from different spinning techniques," *Advances in Yarn Spinning Technology*, 2010.

[50] M. K. H. Mohammad Hosain Reza, "a study on causes of knitting machine stoppages and their impact on fabric production," *European Scientific Journal*, vol. 11, 2015.

[51] R. M. Crow, "Effect of low temperatures on PVC-coated nylon scrims," p. 22, 1992.

[52] M. Suh, "Static Generation and Dissipation in Textiles," *Textile and Apparel, Technology and Management*, 28 04 2009.

[53] M. K. H. Mohammad Hosain Reza, "a study on causes of knitting machine stoppages and their impact on fabric production," *European Scientific Journal*, vol. 11, 2015.

[54] C. C. a. A. M. Sena Cimilli Duru, "Effect of yarn, machine and knitting process parameters on the dynamics of the circular knitting needle," *Textile Research Journa*, vol. 85, no. 6, p. 568–589, 2015.

[55] A. E.-H. A. E.-D. A. Fouda, "Knitting Force Measurement on Flat Knitting Machines," *Journal of Textiles*, pp. 1-9, 2014.

[56] D. D. R. C. D. I. Mirela Blaga, "interactive application for computer aided design of 3d knitted fabrics," Romania, 2015.

[57] Z. X. Y. L. H. L. D.G. Chang, "Simulation of Yarn Tension Control System Based on Simulink," Vols. 426-427 .

[59] C. C. a. A. M. Sena Cimilli Duru, "Effect of yarn, machine and knitting process parameters on the dynamics of the circular knitting needle," *Textile Research Journal,* vol. 85, no. 6, p. 568–589, 2015, Vol.

[60] S. B. M. S. B. Abdessalem, "Influence of Delayed Timing on Knitted Fabric Characteristics," vol. 7, no. 4, 2012.

[61] P. R. Sahas Bansal, "Review on the Manufacturing Processes of Polyester-PET and Nylon-6 Filament Yarn," *International Journal on Textile Engineering and Processes,* vol. 2, no. 3, pp. 23-28, August 2016.

[62] A. A. G. S. A. H. I. G. F. D. A.Valipouri, "An Investigation on the Moisture Regain and Mechanical Properties of Electrospun Hybrid Yarns Including Porous Poly L Lactic Acid and Poly Vinyl Alcohol," 2011.

[63] shodhganga, BENDING STUDIES ON YARNS.

[64] S. A. D. uploaded, "Fiber Fineness," 2013.

[65] M. M. Zamzam, A STUDY ON THE THERMAL DEGRADATION RESISTANCE OF THERMOPLASTIC POLYURETHANE COATINGS, Scholarworks@UAEU, June 2005.

[66] S. Z. N. P. Jun Lang, "Frictional Behavior of Synthetic Yarns During Processing," *Textile Research Journal,* December 1, 2003.

[67] N. G. K. E. H. A. A. Boubakri, "Study of UV-aging of thermoplastic polyurethane material," *Materials Science and Engineering A.*

[68] N. G. K. E. H. A. A. Boubakri, "Study of UV-aging of thermoplastic polyurethane material," *Materials Science and Engineering A.*

[69] N. G. K. E. H. A. A. Boubakri, "Study of UV-aging of thermoplastic polyurethane material," *Materials Science and Engineering A.*