Contents

2 Letter from the Editor

R Mac

- 5 Information about the 60th Anniversary of the Institute of Biopolymers and Chemical Fibres
- 6 Abstracts in Polish

GENERAL PROBLEMS OF THE FIBRE AND TEXTILE INDUSTRIES

10 Importance of Intellectual Capital in Enterprise Growth, with Special Emphasis on the Textile and Clothing Industry in Poland

M. Malinowska-Olszowy

16 Prediction of Textile Waste Profile and Recycling Opportunities in Turkey S. Altun

RESEARCH AND DEVELOPMENT

21 Preparation and Characterisation of PSA/CNT Composites and Fibres Z. Chen, B. Xin, X. Wu, X. Wang, W. Du

26 Study of Self-twist Distribution Functions in Different Convergence Modes H. Cui, C. Yu

30 Optimization of Parameters Influencing Mercerization Using the RSM Method in Order to Increase the Tensile Strength of Mercerized Yarn M. Akhbari, A. Zahiri, S. J. E. Bassam

36 Comparative Research of the Dynamic Young's Module of Fibres T. Więcek, W. Konecki

41 Methodology for Evaluation of Fabric Geometry on the Basis of the Fabric Cross-Section B. Kolčavová Sirková, M. Vyšanská

48 Twist Direction Effect on the Mechanical Properties of Woven Fabric M. Mollanoori. A. Alamdar-Yazdi

56 Effect of Weave Structures on the Low Stress Mechanical Properties of Woven Cotton Fabrics V. Sankaran, V. Subramaniam

60 Study of BTCA and Nano-TiO₂ Effect on Wrinkle Force and Recovery of Cotton/Polyester Blended Fabric

A. Azad, E. Hezavehi, M. Shahvazian, P. Zolgharnein

66 Influence of Plain Knits Structure on Flammability and Air Permeability D. Mikučionienė, L. Milašiūtė, J. Baltušnikaitė, R. Milašius

70 Mechanical Properties of Auxetic and Conventional Polypropylene Random Short Fibre Reinforced Composites

M. Uzun

75 Study on an Optimal Design of Mechanical Properties for PP/PET Nonwovens T.-L. Su

81 Thermographic Assessment of Sweat Evaporation inside Clothing Systems B. Mijović, I. Salopek Čubrić, Z. Skenderi, U. Reischl

88 Simulation of the Drapability of Textile Semi-Finished Products with Gradient-Drapability Characteristics by Varying the Fabric Weave M. Hübner, O. Diestel, C. Sennewald, T. Gereke, C. Cherif

94 Analysis of the Main Properties of Geotextiles Manufactured by Mechanical Two-Sided Needle Punching and by Two-Layered Needle Punching on the Fabric Underlay J. Malkiewicz, R. Drobina, S. Lewandowski

Op Comparative Evaluation of Test Methods for Cut Resistance of Protective Gloves According to Polish Standards

E. Irzmańska, A. Stefko

104 Information for Authors. Advertising and Subscription Information

Additional Informations: IBWCh - p. 9, TUL - p. 87.