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1 Preparation of Antifouling and Self-cleaning Architecture Membrane Materials Using Supercritical Carbon Dioxide Fluid

By Xiaoxing SHEN, Wenfang YANG, School of Textiles, Tianjin Polytechnic University, Tianjin

Abstract: The structural characteristics of architecture membrane materials and the architecture materials with antifouling and self-cleaning property were studied; properties of supercritical carbon dioxide fluid were introduced; two methods for preparing surface layer of antifouling and self-cleaning membrane materials using supercritical carbon dioxide fluid were discussed, as well as the method for testing the effect of self-cleaning of the membrane material. The preparation of antifouling and self-cleaning architecture membrane using supercritical carbon dioxide are conformed to the requirement of low carbon economy, and it has great environmental significance to study and promote it.

Key words: supercritical carbon dioxide; antifouling and self-cleaning property; micro nano-structure; surface layer membrane for architecture

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By Li-xing YANG, Dan PENG, Ying-ming SUN, School of Chemical and Environmental Engineering, Hubei University of Technology, Wuhan, Hubei

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Key words: ramie fibre; dyes; modification; dyeing

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By Shuai DING, Zhiyun LI, Shangdong Textile Science Academy, Qingdao, Shandong

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Key words: nano-finish; functional textile; anti-odor finish

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By Yun-rong CHU, Xu-shan WANG, Chen SUN, Fu-jie LI, Yin-ping GAO, Technical Centre, Huafang Stock Company, Binzhou, Shangdong

Abstract: Through experiments of three dyeing or printing processes of sea-island fibres and polybutylene

terephthalate fibres, it is found that the optimized process is the continuous padding- alkali weight reduction, which renders the fabric soft hand, good drape, and light weight. To be specific, when NaOH 60g/L is used, dyeing with disperse dyes using overflow dyer or padding with reactive dyes, good results are obtained with weight reduction rate of 17%, elasticity of above 20%, and elongation of 5%.

Key words: sea-island fibres; PBT(polybutylene terephthalate) fibre; alkali weight reduction; overflow dyer; padding machine; disperse dyes; reactive dyes; physical index

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By Lin-quan ZENG, Nano-tex Asia Ltd

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Key words: sanding; sanding machine; cause; measure; finishing

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By Jian-ping LIU, Jian ZANG, Changzhou Textile Garment Institute, Changzhou, Jiangsu

Abstract: The paper discusses ion-exchange resin with soil release groups for fabric finishing, including the soil release principle, relationship between functional group and soil release ability, construction of functional group, kinds and safety of emulsifying agent. It is concluded that the ion-exchange resin is an emulsion prepared by copolymerization of three monomers: Perfluoroalkyl group ethyl acrylate(FA) with 6 carbons, acrylic ester(AA) with eighteen-carbon side chain and 2-hydroxyethyl methacrylate using emulsifier which is the compound of nonionic and cationic surfactants. This resin together with the bridging agent (blocked isocyanate) solidifies and forms film on the surface of the fabric, and the treated fabric exhibits good soil release and good safety.

Key words: fabric; soil release; functional group; ion-exchange resin

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