

References

1. Lv Haining, Xue Yuan, Cai Zaisheng, et al. Microporous membrane with temperature-sensitive breathability based on PU/PNIPAAm semi-IPN. *Journal of Applied Polymer Science* 2012;124:E2-E8.
2. Hu Zhou, Yi Chen, Haojun Fan, et al. Water vapor permeability of the polyurethane/TiO₂ nanohybrid membrane with temperature sensitivity. *Journal of Applied Polymer Science* 2008;109: 3002-3007.
3. Bin Zhai, Chi Zhang, Fuqiang Zhang, et al. Covalent modification of temperature-sensitive breathable polyurethane with carbon nanotubes. *Journal Soft Materials* 2016; 14: 272-277.
4. Baohua Liu, Jinlian Hu, Qinghao Meng. Nonwoven supported temperature-sensitive poly(N-isopropylacrylamide)/polyurethane copolymer hydrogel with antibacterial activity. *Journal of Biomedical Materials Research Part B: Applied Biomaterials* 2009; 89B: 1-8.
5. Franklin M.-M, Emilio Bucio, Beatriz M, et al. Temperature- and pH-sensitive IPNs grafted onto polyurethane by gamma radiation for antimicrobial drug-eluting insertable devices. *Journal of Applied Polymer Science* 2014; 131: 39992.
6. Karakas H, Sarac AS, Polat T, et al. Polyurthane nanofibers obtained by electrospinning process. *International Journal of Biological, Biomolecular, Agricultural. Food and Biotechnological Engineering* 2013; 7(3): 177-180.
7. Zhou Hu, Yu Bin, Zhou Jie, et al. Synthesis and characterization of thermal- and pH-Sensitive polyurethane hydrogels with different transition temperature. *Nanoscience and Nanotechnology Letters* 2016; 8: 647-653.
8. Mason B P, Whittaker M, Hemmer J, et al. A temperature-mapping molecular sensor for polyurethane-based elastomers. *Appl. Phys. Lett.* 2016; 108: 041906.
9. Hu Zhou, Bin Yu, Ruiping Xun, et al. Novel temperature-sensitive and pH-sensitive polyurethane membranes: preparation and characterization. *Asia-Pacific Journal of Chemical Engineering* 2015; 10: 193–200.
10. Hu Zhou, Huanhuan Shi, Haojun Fan and Jixin Yuan. Thermo-sensitive polyurethane membrane with controllable water vapor permeation for food packaging. *Macromolecular Research* 2009; 17: 528-532.
11. Duan Ya- feng, Quan Heng, Hu Ling- ling. Study of polyurethane used for temperature-sensitive waterproof and breathable fabric. *Silk Monthly* 2007; 12: 34-36.
12. Horii F, Maruyama H, Hayashi S, et al. Moisture-permeable water-proof fabric and its production. *JPH04370276 (A)* 1992; 12, 22.
13. Ding X M, Hu J L, Tao X M, et al. Preparation of temperature-sensitive polyurethanes for smart textiles. *Textile Research Journal* 2006; 76: 406-413.
14. Huanhuan Shi, Yi Chen, Haojun Fan, et al. Thermosensitive polyurethane film and finished leather with controllable water vapor permeability. *Journal of Applied Polymer Science* 2010; 117: 1820-1827.
15. QUAN Heng, WU Dan and HAN Jing. Study on the structure of polyether polyurethane and its waterproofing & breathable properties. *TEXTILE AUXILIARIES* 2012; 29: 8-11.

16. Ding XM, Hu JL. Morphology and water vapor permeability of temperature-sensitive polyurethanes. *Journal of Applied Polymer Science* 2008,107: 4061-4069.
17. Han H R. Shape memory and breathable waterproof properties of polyurethane nanowebs. *Textile Research Journal* 2013; 83: 76-82.
18. Mondal S and Hu J L. Free volume and water vapor permeability of dense segmented polyurethane membrane. *Journal of Membrane Science* 2006; 280: 427-432.
19. Anupama Kaushik Paramjit Singh. Kinetic Study of polyurethane reaction between castor Oil/TMP polyol and diphenyl methane diisocyanate in bulk. *International Journal of Polymeric Materials and Polymeric Biomaterials* 2006; 55:549–561.
20. Bao Li-Hong, Lan Yun-Jun and Zhang Shu-Fe. Synthesis and properties of waterborne polyurethane dispersions with ions in the soft segments. *Journal of Polymer Research* 2006;13: 507-514.
21. Mondal S and Hu J L. Water vapor permeability of cotton fabrics coated with shape memory polyurethane. *Carbohydrate Polymer* 2007; 67: 282-287.
22. Qi Cao, Shaojun Chen and Jinlian Hu, et al. Study on the Liquefied-MDI-Based shape memory polyurethanes. *Journal of Applied Polymer Science* 2007; 106: 993–1000.
23. Dyana Merline J, Reghunadhan C P, Gouri Nair C, et al, Polyether polyurethanes: Synthesis, characterization, and thermoresponsive shape memory properties. *Journal of Applied Polymer Science* 2008; 107: 4082-4092.
24. Shaojun Chen, Qi Cao, Bo Jing, et al. Effect of Microphase-separation promoters on the shape-memory behavior of polyurethane. *Journal of Applied Polymer Science* 2006;102: 5224–5231.
25. Ding X M, Hu JL and Tao XM. Effect of crystal melting on water vapor permeability of shape-memory polyurethane film. *Textile Research Journal* 2004;74: 39-43.