

## DAFTAR PUSTAKA

- Akindoyo, J. O., Beg, M. D. H., Ghazali, S., Islam, M. R., Jeyaratnam, N., & Yuvaraj, A. R. (2016). Polyurethane types, synthesis and applications-a review. *RSC Advances*, 6(115), 114453–114482. <https://doi.org/10.1039/c6ra14525f>
- Alimudin, & Karmiadiji, D. W. (2010). *Analisis Material Berbasis Polyurethane Foam Infill ( PUF )*. 10(1), 1–6.
- Aydogdu, M. O., Oprea, A. E., Trusca, R., Surdu, A. V., Ficai, A., Holban, A. M., Iordache, F., Paduraru, A. V., Filip, D. G., Altun, E., Ekren, N., Oktar, F. N., & Gunduz, O. (2018). Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite. *BioNanoScience*, 8(1), 154–165. <https://doi.org/10.1007/s12668-017-0443-x>
- Baek, S. W., Lee, S. W., & Kim, C. S. (2019). Experimental verification of use of vacuum insulating material in electric vehicle headliner to reduce thermal load. *Applied Sciences (Switzerland)*, 9(20). <https://doi.org/10.3390/app9204207>
- Bedell, M., Brown, M., Kiziltas, A., Mielewski, D., Mukerjee, S., & Tabor, R. (2018). A case for closed-loop recycling of post-consumer PET for automotive foams. *Waste Management*, 71, 97–108. <https://doi.org/10.1016/j.wasman.2017.10.021>
- Chen, H., Lu, H., Zhou, Y., Zheng, M., Ke, C., & Zeng, D. (2012). Study on thermal properties of polyurethane nanocomposites based on organo-sepiolite. *Polymer Degradation and Stability*, 97(3), 242–247. <https://doi.org/10.1016/j.polymdegradstab.2011.12.025>
- Członka, S., Sienkiewicz, N., Kairyte, A., & Vaitkus, S. (2019). Colored polyurethane foams with enhanced mechanical and thermal properties. *Polymer Testing*, 78(May), 105986. <https://doi.org/10.1016/j.polymertesting.2019.105986>
- Członka, S., Strakowska, A., Strzelec, K., Kairyte, A., & Kremensas, A. (2020). Bio-based polyurethane composite foams with improved mechanical, thermal, and antibacterial properties. *Materials*, 13(5), 1–20. <https://doi.org/10.3390/ma13051108>
- Dutta, A. S. (2018). Polyurethane Foam Chemistry. In *Recycling of Polyurethane Foams*. Elsevier Inc. <https://doi.org/10.1016/b978-0-323-51133-9.00002-4>
- Dutta, P., & Wang, B. (2019). Zeolite-supported silver as antimicrobial agents. In *Coordination Chemistry Reviews* (Vol. 383, hal. 1–29). Elsevier B.V. <https://doi.org/10.1016/j.ccr.2018.12.014>
- El-Shekeil, Y. A., Sapuan, S. M., Abdan, K., & Zainudin, E. S. (2012). Influence of fiber content on the mechanical and thermal properties of Kenaf fiber reinforced thermoplastic polyurethane composites. *Materials and Design*, 40, 299–303. <https://doi.org/10.1016/j.matdes.2012.04.003>
- Gultom, F., Wirjosentono, B., Thamrin, Nainggolan, H., & Eddiyanto. (2016). Preparation and Characterization of North Sumatera Natural Zeolite

- Polyurethane Nanocomposite Foams for Light-weight Engineering Materials. *Procedia Chemistry*, 19, 1007–1013. <https://doi.org/10.1016/j.proche.2016.03.150>
- Gultom, G., Wirjosentono, B., Ginting, M., & Sebayang, K. (2017). Effects of natural zeolite and ferric oxide to electromagnetic and reflection loss properties of polyurethane nanocomposite. *IOP Conference Series: Materials Science and Engineering*, 223(1). <https://doi.org/10.1088/1757-899X/223/1/012031>
- Hsissou, R., Seghiri, R., Benzekri, Z., Hilali, M., Rafik, M., & Elharfi, A. (2021). Polymer composite materials: A comprehensive review. *Composite Structures*, 262(December 2020), 0–3. <https://doi.org/10.1016/j.compstruct.2021.113640>
- Janik, H., Sienkiewicz, M., & Kucinska-Lipka, J. (2014). Polyurethanes. In *Handbook of Thermoset Plastics*. <https://doi.org/10.1016/B978-1-4557-3107-7.00009-9>
- Jin, F. L., Zhao, M., Park, M., & Park, S. J. (2019). Recent trends of foaming in polymer processing: A review. *Polymers*, 11(6). <https://doi.org/10.3390/polym11060953>
- Kraitape, N., & Thongpin, C. (2016). Influence of Recycled Polyurethane Polyol on the Properties of Flexible Polyurethane Foams. *Energy Procedia*, 89, 186–197. <https://doi.org/10.1016/j.egypro.2016.05.025>
- Kucinska-Lipka, J., Gubanska, I., & Sienkiewicz, M. (2017). Thermal and mechanical properties of polyurethanes modified with L-ascorbic acid. *Journal of Thermal Analysis and Calorimetry*, 127(2), 1631–1638. <https://doi.org/10.1007/s10973-016-5743-9>
- Lv, Z., Zhang, L., Yang, Y., & Bi, X. (2011). Preparation and properties of polyurethane/zeolite 13X composites. *Materials and Design*, 32(6), 3624–3628. <https://doi.org/10.1016/j.matdes.2011.02.016>
- McKenna, S. T., & Hull, T. R. (2016). The fire toxicity of polyurethane foams. *Fire Science Reviews*, 5(1). <https://doi.org/10.1186/s40038-016-0012-3>
- Mohamed, D. J., Hadi, N. J., & Alobad, Z. K. (2021). Investigation of the Polyol Types and Isocyanate Concentrations on the Rheological, Morphological and Mechanical Properties of Polyurethane Foams. *IOP Conference Series: Materials Science and Engineering*, 1094(1), 012157. <https://doi.org/10.1088/1757-899x/1094/1/012157>
- Oktariani, E., & Sari, L. R. (2021). Potensi Zeolit Alam dalam Meningkatkan Sifat Termal Busa Poliuretan. *Jurnal Teknologi dan Manajemen*, 19(2), 53–58. <https://doi.org/10.52330/jtm.v19i2.40>
- Pehlivan, H., Balköse, D., Ülkü, S., & Tihmmlioğlu, F. (2006). Effect of zeolite filler on the thermal degradation kinetics of polypropylene. *Journal of Applied Polymer Science*, 101(1), 143–148. <https://doi.org/10.1002/app.23105>
- Rahman, R., & Putra, S. Z. F. S. (2018). Tensile properties of natural and synthetic fiber-reinforced polymer composites. In *Mechanical and Physical Testing of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites*. Elsevier Ltd. <https://doi.org/10.1016/B978-0-08-102292-4.00005-9>
- Rusu, L. C., Ardelean, L. C., Jitariu, A. A., Miu, C. A., & Streian, C. G. (2020).

- An insight into the structural diversity and clinical applicability of polyurethanes in biomedicine. *Polymers*, 12(5), 1–22. <https://doi.org/10.3390/POLYM12051197>
- Safari, H., Karevan, M., & Nahvi, H. (2018). Mechanical characterization of natural nano-structured zeolite/polyurethane filled 3D woven glass fiber composite sandwich panels. In *Polymer Testing* (Vol. 67). Elsevier Ltd. <https://doi.org/10.1016/j.polymertesting.2018.03.018>
- Shafigullin, L. N., Yurasov, S. Y., Shayakhmetova, G. R., Shafigullina, A. N., & Zharin, E. D. (2017). *Sound-Absorbing Polyurethane Foam for the Auto Industry*. 37(4), 372–374. <https://doi.org/10.3103/S1068798X17040190>
- Sienkiewicz, N., Członka, S., Kairyte, A., & Vaitkus, S. (2019). Curcumin as a natural compound in the synthesis of rigid polyurethane foams with enhanced mechanical, antibacterial and anti-ageing properties. *Polymer Testing*, 79(March). <https://doi.org/10.1016/j.polymertesting.2019.106046>
- Sportelli, M. C., Picca, R. A., Ronco, R., Bonerba, E., Tantillo, G., Pollini, M., Sannino, A., Valentini, A., Cataldi, T. R. I., & Cioffi, N. (2016). Investigation of industrial polyurethane foams modified with antimicrobial copper nanoparticles. *Materials*, 9(7), 1–13. <https://doi.org/10.3390/ma9070544>
- Tran, Y. T., Lee, J., Kumar, P., Kim, K. H., & Lee, S. S. (2019). Natural zeolite and its application in concrete composite production. *Composites Part B: Engineering*, 165, 354–364. <https://doi.org/10.1016/j.compositesb.2018.12.084>
- Udabe, E., Isik, M., Sardon, H., Irusta, L., Salsamendi, M., Sun, Z., Zheng, Z., Yan, F., & Mecerreyes, D. (2017). Antimicrobial polyurethane foams having cationic ammonium groups. *Journal of Applied Polymer Science*, 134(45), 1–7. <https://doi.org/10.1002/app.45473>
- Wang, X. X., Peng, H. K., Li, T. T., Lou, C. W., Wang, Y. T., & Lin, J. H. (2019). Preparation and property evaluations of zeolite rigid foam composites. *Polymer Composites*, 40(11), 4175–4185. <https://doi.org/10.1002/pc.25278>
- Xu, J., Jiang, Y., Zhang, T., Dai, Y., Yang, D., Qiu, F., Yu, Z., & Yang, P. (2018). Synthesis of UV-curing waterborne polyurethane-acrylate coating and its photopolymerization kinetics using FT-IR and photo-DSC methods. *Progress in Organic Coatings*, 122(May), 10–18. <https://doi.org/10.1016/j.porgcoat.2018.05.008>
- Yang, R. (2018). *Analytical Methods for Polymer Characterization*. CRC Press. <https://doi.org/10.1201/9781351213158>