

## DAFTAR PUSTAKA

- [1] B. Rochmanto, H. Setiapraja, and M. Ekasari, “Kajian Emisi Dan Konsumsi Bahan Bakar Dalam Penggunaan Campuran Bahan Bakar Biosolar Pada Kendaraan Penumpang,” *Rotor*, vol. 13, no. 2, p. 31, 2020, doi: 10.19184/rotor.v13i2.19148.
- [2] K. Jacques, L. Bax, H. Vasiliadis, I. Magallon, and K. Ong, “Polymer composites for automotive sustainability,” *European technology platform for sustainable chemistry*, p. 56, 2015.
- [3] A. I. Taub, “Automotive materials: Technology trends and challenges in the 21st century,” *MRS Bulletin*, vol. 31, no. 4, pp. 336–343, 2006, doi: 10.1557/mrs2006.74.
- [4] A. Suryadi and B. Triyono, “Optimasi Pengaktifan Motor Penggerak pada Prototipe Sepeda Motor Hibrid untuk Menurunkan Konsumsi Bahan Bakar,” *Prosiding Industrial Research Workshop ...*, pp. 146–150, 2015.
- [5] S. Moritomi, T. Watanabe, and S. Kanzaki, “Polypropylene Compounds for Automotive Applications,” *Predicting the Potential of Agro Waste Fibers*, pp. 1–16, 2010.
- [6] H. Mae, M. Omiya, and K. Kishimoto, “Effects of strain rate and density on tensile behavior of polypropylene syntactic foam with polymer microballoons,” *Materials Science and Engineering A*, vol. 477, no. 1–2, pp. 168–178, 2008, doi: 10.1016/j.msea.2007.05.028.
- [7] N. H. Sari and S. Sinarep, “Analisa Kekuatan Bending Komposit Epoxy Dengan Penguatan Serat Nilon,” *Dinamika Teknik Mesin*, vol. 1, no. 1, 2011, doi: 10.29303/d.v1i1.130.
- [8] M. M. Karabela and I. D. Sideridou, “Synthesis and study of properties of dental resin composites with different nanosilica particles size,” *Dental Materials*, vol. 27, no. 8, pp. 825–835, 2011, doi: 10.1016/j.dental.2011.04.008.
- [9] “7 different types of polypropylene and their applications.” Accessed: Jul. 30, 2023. [Online]. Available: <https://europlas.com.vn/en-US/blog-1/7-different-types-of-polypropylene-and-their-applications>
- [10] R. Gatcher, H. Muller, H. Verlag, and Munich, *Plastics additives (third edition)*, vol. 25, no. 4. 1991.
- [11] A. S. F. Santos, J. A. M. Agnelli, D. W. Trevisan, and S. Manrich, “Degradation and stabilization of polyolefins from municipal plastic waste during multiple extrusions under different reprocessing conditions,” *Polymer Degradation and Stability*, vol. 77, no. 3, pp. 441–447, 2002, doi: 10.1016/S0141-3910(02)00101-5.

- [12] B. A. Harsojuwono and I. W. Arnata, *Teknologi Polimer Industri Pertanian*, no. March. 2015.
- [13] A. K. Singh, A. J. Deptula, R. Anawal, M. Doddamani, and N. Gupta, "Additive Manufacturing of Three-Phase Syntactic Foams Containing Glass Microballoons and Air Pores," *Jom*, vol. 71, no. 4, pp. 1520–1527, 2019, doi: 10.1007/s11837-019-03355-5.
- [14] B. John and C. P. Reghunadhan Nair, *Syntactic Foams*. Elsevier Inc., 2014. doi: 10.1016/B978-1-4557-3107-7.00013-0.
- [15] J. A. M. Ferreira, C. Capela, and J. D. Costa, "A study of the mechanical behaviour on fibre reinforced hollow microspheres hybrid composites," *Composites Part A: Applied Science and Manufacturing*, vol. 41, no. 3, pp. 345–352, 2010, doi: 10.1016/j.compositesa.2009.10.018.
- [16] K. R. Dando, W. M. Cross, M. J. Robinson, and D. R. Salem, "Production and characterization of epoxy syntactic foams highly loaded with thermoplastic microballoons," *Journal of Cellular Plastics*, vol. 54, no. 3, pp. 499–514, 2018, doi: 10.1177/0021955X17700093.
- [17] 3M, "3M Glass Bubbles K and S Series," 2009.
- [18] S. Bhatia, M. Khan, H. Sengar, and V. Bhatia, "a Review on the Mechanical Properties and Environmental Impact of Hollow Glass Microsphere Epoxy Composites," | *Iioabj* |, vol. 9, pp. 1–8, 2018.
- [19] E. Industries, "AEROSIL® 200 Hydrophilic fumed silica Characteristic physico chemical data," 2011.
- [20] L. K. dan I. R. Asmanto, "Pengaruh Kadar Aerosil Dan Talk Haichen Pada Produksi Cat Crackle," *Momentum*, vol. 13, no. 1, pp. 11–14, 2017.
- [21] S. Ouhaibi *et al.*, "Thermally insulating gypsum composites incorporating aerosil for sustainable energy-saving buildings," *Journal of Building Engineering*, vol. 43, no. May, p. 102848, 2021, doi: 10.1016/j.jobbe.2021.102848.
- [22] Jr. William D. Callister and David G. Rethwisch, "Materials Science and Eng.," *Materials Science and Engineering: A*, vol. 42, no. 1, p. 181, 1980.
- [23] A. Abdullah and A. Mohammed, "Scanning Electron Microscopy (SEM): A Review," *Proceedings of 2018 International Conference on Hydraulics and Pneumatics - HERVEX*, pp. 77–85, 2019.
- [24] B. Sena, "Kecepatan Pada Aliran Fluida Laminar Di Dalam Pipa Horizontal," *Faktor Exacta*, vol. 5, no. 3, pp. 192–201, 2015.
- [25] H. S. Kim and M. A. Khamis, "Fracture and impact behaviours of hollow micro-sphere/epoxy resin composites," *Composites - Part A: Applied*

*Science and Manufacturing*, vol. 32, no. 9, pp. 1311–1317, 2001, doi: 10.1016/S1359-835X(01)00098-7.

- [26] H. Ku, M. Trada, and R. Huq, “A pilot study on the flexural properties of vinyl ester composites filled with glass powder,” *Advanced Materials Research*, vol. 123–125, pp. 3–6, 2010, doi: 10.4028/www.scientific.net/AMR.123-125.3.
- [27] D. Ray, D. Bhattacharya, A. K. Mohanty, L. T. Drzal, and M. Mishra, “Static and dynamic mechanical properties of vinylester resin matrix composites filled with fly ash,” *Macromolecular Materials and Engineering*, vol. 291, no. 7, pp. 784–792, 2006, doi: 10.1002/mame.200600097.
- [28] Y. Tao, S. Hinduja, R. Heinemann, A. Gomes, and P. J. Bártolo, “A study of physico-mechanical properties of hollow glass bubble, jute fibre and rubber powder reinforced polypropylene compounds with and without mucell® technology for lightweight applications,” *Polymers*, vol. 12, no. 11, pp. 1–13, 2020, doi: 10.3390/polym12112664.
- [29] K. Diharjo, I. Elharomy, and A. Purwanto, “Pengaruh Fraksi Volume Filler terhadap Kekuatan Bending dan Ketangguhan Impak Komposit Nanosilika-Phenolic,” *Jurnal Rekayasa Mesin*, vol. 5, no. 1, pp. 27–32, 2014.
- [30] M. Afifah, A. Fuad, and M. Diantoro, “Pengaruh Nanosilika Terhadap Mikrostruktur, Kekuatan Tarik, Dan Ketahanan Kikis Komposit Karet Alam/Nanosilika,” pp. 48–53, 2015.
- [31] L. Liu, B. M. Zhang, D. F. Wang, and Z. J. Wu, “Effects of cure cycles on void content and mechanical properties of composite laminates,” *Composite Structures*, vol. 73, no. 3, pp. 303–309, 2006, doi: 10.1016/j.compstruct.2005.02.001.
- [32] A. S. Soekoco, “Studi Perbandingan Kekuatan Tarik Komposit Berbahan Chopped Strand Mat Metode Hand Lay-Up Dan Vacuum Assisted Resin Infusion,” *Texere*, vol. 16, no. 1, pp. 34–42, 2020, doi: 10.53298/texere.v16i1.4.