

DAFTAR PUSTAKA

- [1] M. S. Sheikh and A. P. Ganorkar, "Review on HDPE Fuel Tank for Maruti Alto Car as an Alternative," *Academia.Edu*, vol. 2, no. 05, pp. 172–174, 2015.
- [2] K. D. Liehr, "Plastic fuel tanks in the Federal Republic of Germany and in Europe," *SAE Technical Papers*, 1988, doi: 10.4271/880686.
- [3] A. Nikam and M. Petale, "BSVI: Plastic fuel tank design challenges and improvements proposed with structural strength analysis & pressure loading using FEA," vol. 3, no. 1, pp. 22–29, 2022.
- [4] A. T. Patil and N. K. Kelageri, "Design Evaluation of Fuel Tank & Chassis Frame for Rear Impact of Toyota Yaris," *International Research Journal of Engineering and Technology*, pp. 1491–1496, 2016.
- [5] A. Zuhdi Rafid, H. Hosta Ardhyanta, and V. Mitha Pratiwi, "Tinjauan Pengaruh Penambahan Jenis Filler terhadap Sifat Mekanik dan Biodegradasi pada Bioplastik Pati Singkong," *Jurnal Teknik Its*, vol. 10, no. 2, pp. 49–54, 2021.
- [6] H. Tavman, K. Sever, A. Turgut, M. Omastova, and I. Ozdemir, "Composites: Part B Electrical and mechanical properties of expanded graphite / high density polyethylene nanocomposites," vol. 53, pp. 226–233, 2013, doi: 10.1016/j.compositesb.2013.04.069.
- [7] L. N. Shafigullin, G. F. Muhametzjanova, A. A. Muhamatdinova, A. M. Sotnikov, and G. R. Shafugullina, "Usage of polymeric fuel tanks in the automotive industry," *IOP Conference Series: Materials Science and Engineering*, vol. 412, no. 1, 2018, doi: 10.1088/1757-899X/412/1/012071.
- [8] B. Prakash, P. Kumara, R. Kumbara, and Mamatha, "Finite Element Analysis on Diesel Tank of Six Wheeled Truck," *International Journal of Mechanical and Production Engineering Research and Development*, vol. 10, no. 3, pp. 9265–9276, 2020, doi: 10.24247/ijmperdjun2020878.
- [9] D. J. Kathios, R. M. Ziff, and C. Corp, "SA E TECHNICAL Permeation of Gasoline-Alcohol Fuel Blends Through High-Density Polyethylene Fuel Tanks with Different Barrier Technologies," 2018.

- [10] S. K. Sudarsanam and K. Panneerselvam, "Mechanical and thermal investigation of high-density polyethylene/multi-walled carbon nanotube/tungsten disulfide hybrid composites," *Iranian Polymer Journal*, vol. 33, no. 8, pp. 1075–1089, 2024, doi: 10.1007/s13726-024-01305-w.
- [11] H. S. B. Rochardjo, "Perkembangan Mutakhir Material Komposit, Peluang, Dan Tantangannya Dalam Aplikasi Di Bidang Otomotif," *Dgb.Ugm.Ac.Id*, 2023.
- [12] E. Oktariani, A. Rakhma, M. Hasanah, and U. Prayudie, "Pemanfaatan limbah Polyester Staple Fiber (PSF) dan Polyester Suction Waste (PSW) sebagai pengisi pada kulit sintesis berbasis Polivinil Klorida (PVC)," *Jurnal Teknik Kimia*, vol. 26, no. 3, pp. 103–107, 2020, doi: 10.36706/jtk.v26i3.457.
- [13] D. D. Saputri and T. E. Saraswati, "Sintesis Carbon Nanotubes (CNT) Berbasis Bahan Alam Limbah Tempurung Kelapa dan Aplikasinya dalam Pembuatan Polimer Komposit Polimida-CNT: Review," *Proceeding of Chemistry Conferences*, vol. 6, p. 38, 2021, doi: 10.20961/pcc.6.0.55088.38-46.
- [14] S. Rathinavel, K. Priyadharshini, and D. Panda, "A review on carbon nanotube: An overview of synthesis, properties, functionalization, characterization, and the application," *Materials Science and Engineering: B*, vol. 268, no. January 2020, p. 115095, 2021, doi: 10.1016/j.mseb.2021.115095.
- [15] K. Suhas and B. R. N. Murthy, "Preparation and Characterization Techniques of High-Density Polyethylene (HDPE) Reinforced with Multi-walled Carbon Nanotube (MWCNT) Nano-composites—A Review," *Journal of The Institution of Engineers (India): Series D*, 2023, doi: 10.1007/s40033-023-00576-6.
- [16] A. Pandit and V. K. Chawla, "Design and manufacturing of a fuel tank for formula SAE vehicle," *Materials Today: Proceedings*, vol. 43, pp. 148–153, 2020, doi: 10.1016/j.matpr.2020.11.251.
- [17] L. N. Shafigullin, A. M. Sotnikov, N. V. Romanova, E. S. Shabaeva, and D. R. Sarimov, "Development of a polymeric fuel tank with high barrier

- properties,” *IOP Conference Series: Materials Science and Engineering*, vol. 570, no. 1, 2019, doi: 10.1088/1757-899X/570/1/012088.
- [18] N. E. Bedewi and T. Omar, “Modeling of automotive fuel tanks using smoothed particle hydrodynamics,” *SAE Technical Papers*, no. 724, 2007, doi: 10.4271/2007-01-0682.
- [19] S. Kurniawan, “Makalah Seminar Kerja Praktek SISTEM INDUCTION HEATER MESIN EXTRUDER UNTUK PENGOLAHAN WASTE PADA,” *Makalah Seminar Kerja Praktek*, pp. 1–4, 2014.
- [20] F. I. Aryanti, “Pembuatan Komposit Polimer Polipropilena/Talk/Masterbatch Hitam Pada Cover Tail,” *Jurnal Teknologi dan Manajemen*, vol. 19, no. 1, pp. 1–6, 2021, doi: 10.52330/jtm.v19i1.8.
- [21] Eqitha Dea Clareyna and Lizda Johar Mawarani, “Pembuatan dan Karakteristik Komposit Polimer Berpenguat Bagasse,” *Jurnal Teknik POMITS*, vol. 2, no. 2, 2013.
- [22] R. P. L. Nijssen, *Smart Composite Materials: An Introduction*, vol. 2. 2015. doi: 10.1016/B978-0-12-819724-0.00092-6.
- [23] S. Maiti, M. R. Islam, M. A. Uddin, S. Afroj, S. J. Eichhorn, and N. Karim, “Sustainable Fiber-Reinforced Composites: A Review,” *Advanced Sustainable Systems*, vol. 6, no. 11, 2022, doi: 10.1002/adsu.202200258.
- [24] S. Kangishwar, N. Radhika, A. A. Sheik, A. Chavali, and S. Hariharan, “A comprehensive review on polymer matrix composites: material selection, fabrication, and application,” *Polymer Bulletin*, vol. 80, no. 1, pp. 47–87, 2023, doi: 10.1007/s00289-022-04087-4.
- [25] A. Vilgis, T. G. Heinrich, and M. Kluppel, “Reinforcing fillers,” in *Reinforcement of Polymer Nano-Composites*, no. May, 2017, pp. 75–100.
- [26] R. Hsissou, R. Seghiri, Z. Benzekri, M. Hilali, M. Rafik, and A. Elharfi, “Polymer composite materials: A comprehensive review,” *Composite Structures*, vol. 262, no. December 2020, pp. 0–3, 2021, doi: 10.1016/j.compstruct.2021.113640.
- [27] L. Diana, A. Ghani Safitra, and M. Nabel Ariansyah, “Analisis Kekuatan Tarik pada Material Komposit dengan Serat Penguat Polimer,” *Jurnal Kesehatan dan Masyarakat*, vol. 2, no. 2, pp. 2808–6171, 2022.

- [28] F. W. Billmeyer, "Textbook of Polymer Science," *Kobunshi*, vol. 12, no. 3, pp. 240–251, 1994, doi: 10.1295/kobunshi.12.240.
- [29] L. Brenner, "Differences Between HDPE Plastic and Polyethylene Plastic | Sciencing," Sciencing.com. Accessed: Jul. 18, 2024. [Online]. Available: <https://sciencing.com/differences-hdpe-plastic-polyethylene-plastic-6807965.html>
- [30] B. A. Harsojuwono and I. W. Arnata, "Teknologi Polimer Industri Pertanian," *Teknologi Polimer*, p. 108, 2015.
- [31] T. Zhu, X. Li, X. Zhao, X. Zhang, Y. Lu, and L. Zhang, "Stress-strain behavior and corresponding crystalline structures of four types of polyethylene under a wide range of strain rates," *Polymer Testing*, vol. 106, p. 107460, 2022, doi: 10.1016/j.polymertesting.2021.107460.
- [32] F. Hidayanti, *Material Biokomposit*. 2021.
- [33] S. Kumar, A. K. Panda, and R. K. Singh, "A review on tertiary recycling of high-density polyethylene to fuel," *Resources, Conservation and Recycling*, vol. 55, no. 11, pp. 893–910, 2011, doi: 10.1016/j.resconrec.2011.05.005.
- [34] S. T. Sam, M. A. Nuradibah, H. Ismail, N. Z. Noriman, and S. Raguathan, "Recent Advances in Polyolefins/Natural Polymer Blends Used for Packaging Application," *Polymer - Plastics Technology and Engineering*, vol. 53, no. 6, pp. 631–644, 2014, doi: 10.1080/03602559.2013.866247.
- [35] R. Kartini, H. Darmasetiawan, A. K. Karo, and Sudirman, "Pembuatan dan Karakterisasi Komposit Polimer Berpenguat Serat Alam," *Jurnal Sains Materi Indonesia*, vol. 3, no. 3, pp. 30–38, 2002.
- [36] S. M. Mousavinasab, "Effects of Filler Content on Mechanical and Optical Properties of Dental Composite Resins," *Intech*, vol. 11, no. tourism, p. 13, 2011.
- [37] J. Chandra, L. Setyowati, and S. Setyabudi, "Kekasaran Permukaan Resin Komposit Nanofilled dan Nanohybrid Setelah Paparan Asap Rokok Kretek," *Conservative Dentistry Journal*, vol. 8, no. 1, p. 30, 2019, doi: 10.20473/cdj.v8i1.2018.30-35.
- [38] M. Ramesh, L. N. Rajeshkumar, N. Srinivasan, D. V. Kumar, and D. Balaji, "Influence of filler material on properties of fiber-reinforced polymer

- composites: A review,” *E-Polymers*, vol. 22, no. 1, pp. 898–916, 2022, doi: 10.1515/epoly-2022-0080.
- [39] Q. Fang and K. Lafdi, “Effect of nanofiller morphology on the electrical conductivity of polymer nanocomposites,” *Nano Express*, vol. 2, no. 1, 2021, doi: 10.1088/2632-959X/abe13f.
- [40] R. Damaru, A. Novaringga, Darmansyah, and S. Br. Ginting, “Indonesian Journal of Chemical Science Resin Composite Synthesis Reinforced with Banana Tree Fiber with Carboxylic Silica (SiO₂-COOH) Addition as a Nanofiller,” *J. Chem. Sci.*, vol. 10, no. 1, 2021.
- [41] X. Su *et al.*, “A comparative study of polycarbonate nanocomposites respectively containing graphene nanoplatelets, carbon nanotubes and carbon nanofibers,” *Advanced Nanocomposites*, vol. 1, no. 1, pp. 77–85, 2024, doi: 10.1016/j.adna.2023.11.001.
- [42] N. Anzar, R. Hasan, M. Tyagi, N. Yadav, and J. Narang, “Carbon nanotube - A review on Synthesis, Properties and plethora of applications in the field of biomedical science,” *Sensors International*, vol. 1, no. December 2019, p. 100003, 2020, doi: 10.1016/j.sintl.2020.100003.
- [43] Y. Wang *et al.*, “A facile rheological approach for the evaluation of ‘super toughness point’ of compatibilized HDPE / MWCNT nanocomposites,” *Polymer Testing*, vol. 81, no. November 2019, p. 106280, 2020, doi: 10.1016/j.polymertesting.2019.106280.
- [44] L. Diana, A. Ghani Safitra, and M. Nabel Ariansyah, “Analisis Kekuatan Tarik pada Material Komposit dengan Serat Penguat Polimer,” *Jurnal Engine : Energi, Manufaktur, dan Material*, vol. 4, no. 2, pp. 59–67, 2020.
- [45] C. Okolo, R. Rafique, S. S. Iqbal, M. S. Saharudin, and F. Inam, “Carbon nanotube reinforced high density polyethylene materials for offshore sheathing applications,” *Molecules*, vol. 25, no. 13, pp. 1–13, 2020, doi: 10.3390/molecules25132960.
- [46] D. Jagannathan, H. Adarsha, K. Ramaiah, and R. N. Prabhu, “A Systematic Study on Mechanical Properties of CNT Reinforced HDPE Composites Developed Using 3D Printing,” *Iranian Journal of Materials Science and Engineering*, vol. 20, no. 3, pp. 1–16, 2023, doi: 10.22068/ijmse.3231.

- [47] Y. Wu, C. Dong, C. Yuan, X. Bai, L. Zhang, and Y. Tian, "MWCNTs filled high-density polyethylene composites to improve tribological performance," *Wear*, vol. 477, no. August 2020, p. 203776, 2021, doi: 10.1016/j.wear.2021.203776.
- [48] American Society for Testing and Materials, "ASTM D638-14, Standard practice for preparation of metallographic specimens," *ASTM International*, vol. 82, no. C, pp. 1–15, 2014, doi: 10.1520/D0638-14.1.
- [49] A. M. Siregar and J. F. Nasution, "Efek Kecepatan Pembebanan Pada Bahan Baja Terhadap Kekuatan Tarik Impak," *Mekanik ...*, vol. 4, no. 1, pp. 34–43, 2018.
- [50] T. Dewantara, W. Soerdarmadji, and M. Huda, "Perancangan Alat Uji Impact 150 Joule Dengan Metode Charpy Pada Skala Laboratorium," *Neutral: Journal of Engineering*, vol. 1, no. 1, pp. 24–35, 2023.
- [51] S. Dabees, V. Tirth, A. Mohamed, and B. M. Kamel, "Wear performance and mechanical properties of MWCNT/HDPE nanocomposites for gearing applications," *Journal of Materials Research and Technology*, vol. 12, pp. 2476–2488, 2021, doi: 10.1016/j.jmrt.2020.09.129.
- [52] A. Choliq, N. Rohmat, and S. Simbolon, "Metalurgi Fisik," Tangerang Selatan, 2021.
- [53] American Society for Testing and Materials, "D256-10E1," *Methods*, no. January, pp. 1–20, 2015, doi: 10.1520/D0256-10.
- [54] V. H. Hermawan, N. R. Ismail, A. Farid, and A. R. Fadhillah, "Pengaruh Penambahan Serbuk Alumina (Al₂O₃) Pada Resin Polyester Btqn 157 Terhadap Kekuatan Impact Komposit Serat Kulit Pohon Waru (*Hibiscus Tiliaceus*)," *Jurnal Energi dan Teknologi Manufaktur (JETM)*, vol. 3, no. 02, pp. 25–32, 2020, doi: 10.33795/jetm.v3i02.57.
- [55] I. Sutisna, "Statistika Penelitian," *Universitas Negeri Gorontalo*, pp. 1–15, 2020.
- [56] S. Amir Khanlou, M. Ketabchi, and N. Parvin, "Izod Impact Tests in Polyester Matrix Composites Reinforced with Figue Fabric," pp. 671–680, 2017, doi: 10.1007/978-3-319-52132-9.