

DAFTAR PUSTAKA

- [1] W. H. Nugroho, N. Firdaus, B. Ali, and Nurhadi, "Study on Fatigue Prediction of Composite Seaplane Float Based on The Porpoising Model Test Data," *Ijesca*, vol. 6, no. 1, pp. 42–47, 2019.
- [2] Badan Pengkajian dan Penerapan Teknologi, "Pengembangan Teknologi Transportasi Berkelanjutan," *Kedeputian Bidang Teknologi Industri Rancang Bangun & Rekayasa*, no. September, 2019.
- [3] A. S. Nugroho, H. Ardianto, and H. Setiawan, "Desain Struktur Float Pesawat Amfibi," *Teknika STTKD: Jurnal Teknik, Elektronik, Engine*, vol. 6, no. 2, pp. 84–91, 2020, doi: 10.56521/teknika.v6i2.216.
- [4] ASM, "ASM Material Data Sheet." Accessed: Aug. 22, 2023. [Online]. Available: <https://asm.matweb.com/search/SpecificMaterial.asp?bassnum=ma6061t6>
- [5] N. L. Muzayadah *et al.*, "Effect of Immersion into Seawater and Freshwater to Mechanical Properties of Vinyl ester Carbon Composite," *Jurnal Teknologi Dirgantara*, vol. 20, no. 1, pp. 9–24, 2022.
- [6] R. Scaffaro, A. Di Bartolo, and N. T. Dintcheva, "Matrix and filler recycling of carbon and glass fiber-reinforced polymer composites: A review," *Polymers*, vol. 13, no. 21, 2021, doi: 10.3390/polym13213817.
- [7] M. M. Muhammad, "Pengaruh komposisi pelarut dan ketebalan cat epoksi terhadap daya lekat dan tingkat pelepuhan (blistering) pada lingkungan NaCl yang diaplikasikan pada baja karbon," Institut Teknologi Sepuluh Nopember, 2015.
- [8] K. Diharjo, "Kekuatan bending komposit sandwich serat gelas dengan core divinycell-pvc h-60 (pengaruh orientasi serat, jumlah laminat dan tebal core terhadap kekuatan bending)," *Mekanika*, vol. 9, no. 2, pp. 313–319, 2011.
- [9] O. A. Afolabi, M. T. Pandurangan, and K. Kanny, "Effect of hollow glass microsphere (HGM) on impact and flexural properties of high-density syntactic foam based epoxy composites," *Materials Today: Proceedings*, May 2023, doi: 10.1016/J.MATPR.2023.05.351.
- [10] H. M. Ali, I. R. Rubel, S. S. Yusuf, and A. M. Siddique, "A review on syntactic foams processing, preparation and applications Controlled release fertilizer View project Smart Hybrid Grid Simulation View project," *Icmere*, vol. 2019, no. December, pp. 11–13, 2019.
- [11] K. R. Dando, W. M. Cross, M. J. Robinson, and D. R. Salem, "Characterization of mixture epoxy syntactic foams highly loaded with thermoplastic and glass microballoons," *Composite Material*, 2018, doi: 10.1177/0021998318810782.

- [12] D. Paul and R. Velmurugan, "Analysis of the specific properties of glass microballoon-epoxy syntactic foams under tensile and flexural loads," *Elsevier*, vol. 5, pp. 16956–16962, 2018, doi: 10.1016/j.matpr.2018.04.099.
- [13] S. Bhatia, S. Angra, and S. Khan, "Mechanical and wear properties of epoxy matrix composite reinforced with varying ratios of solid glass microspheres Mechanical and wear properties of epoxy matrix composite reinforced with varying ratios of solid glass microspheres," *Journal Of Physics*, 2019, doi: 10.1088/1742-6596/1240/1/012080.
- [14] F. Adiputra, "Pengaruh variasi penambahan jumlah layer glass fiber dengan perbandingan fraksi volume yang tetap pada komposit epoxy-hollow glass microspheres terhadap karakteristik tensile," Institut Teknologi Sepuluh Nopember, 2016.
- [15] D. Paul, R. Velmurugan, R. Jayagathan, K. N. Gupta, and V. A. Manzhurov, "Analysis of syntactic foam-GFRP sandwich composite for flexural loads," *Journal Of Physics*, 2018.
- [16] C. Qi, Q. Yu, and Y. Zhao, "Fabrication and characterization of the thermoplastic and thermoset syntactic foam core-based sandwich composites," *Polymer Composites*, vol. 41, no. 8, pp. 3052–3061, 2020, doi: 10.1002/pc.25597.
- [17] D. Paul, R. Velmurugan, and N. K. Gupta, "Experimental and analytical studies of syntactic foam core composites for impact loading," *International Journal of Crashworthiness*, vol. 0, no. 0, pp. 1–18, 2020, doi: 10.1080/13588265.2020.1797346.
- [18] A. Gopinath, K. M. Senthil, and A. Babu, "Evaluation of Mechanical Properties and Microstructure of Polyester and Epoxy Resin Matrices Reinforced with Jute, E-glass and coconut Fiber," *Materials Today: Proceedings*, vol. 5, no. 9, pp. 20092–20103, 2018, doi: 10.1016/j.matpr.2018.06.376.
- [19] W. K. Widodo, "Perencanaan Pelampung Berbahan Dasar Komposit pada Sepeda Motor Amphibi," Universitas Pancasakti Tegal, 2019.
- [20] K. Abdurrohman and M. Adhitya, "Analysis of Mechanical Properties of Carbon-Based Hybrid Composites as an Alternative for Amphibious Aircraft Float Material," vol. 19, no. 2, pp. 169–176, 2021.
- [21] T. R. Setyawan and S. Riyadi, "Analisis variasi struktur serat rami komposit matrik epoksi terhadap kekuatan uji balistik dan bending," *Momentum*, vol. 16, no. 2, pp. 111–115, 2020.
- [22] S. Kushwaha and A. K. Bagha, "Proceedings Application of composite materials for vibroacoustic," *Materials Today: Proceedings*, 2020, doi: 10.1016/j.matpr.2020.02.321.

- [23] A. Prayoga, B. Eryawanto, and Q. Hadi, "Pengaruh Ketebalan Skin Terhadap Kekuatan Bending dan Tarik Komposit Sandwich dengan Honeycomb Polypropylene sebagai Core," *Jurnal Teknik Mesin*, vol. 18, no. 1, pp. 23–28, 2018.
- [24] J. Parente, P. N. B. Reis, M. Neto, and A. M. Amaro, "Mechanical properties of sandwich composites reinforced by nanoclays," *Applied Sciences (Switzerland)*, vol. 10, no. 7, pp. 1–14, 2020, doi: 10.3390/app10072637.
- [25] N. Hameed, P. A. Sreekumar, V. S. Valsaraj, and S. Thomas, "High-Performance Composite From Epoxy and Glass Fibers : Morphology , Mechanical , Dynamic Mechanical , and Thermal Analysis," 2009, doi: 10.1002/pc.
- [26] R. Dinur, "Proses pembuatan produk komposit sandwich vacuum infusion," Universitas Islam Indonesia, 2019.
- [27] L. Bardella, G. Perini, A. Panteghini, N. Tessier, N. Gupta, and M. Porfiri, "Failure of glass-microballoons/thermoset-matrix syntactic foams subject hydrostatic loading," *European Journal of Mechanics / A Solids*, 2018, doi: 10.1016/j.euromechsol.2018.01.007.
- [28] M. Saxena *et al.*, "Modeling and analysis of K15 hollow glass microballoons filled epoxy syntactic foam for lightweight structures," *International Journal on Interactive Design and Manufacturing*, vol. 123, 2023, doi: 10.1007/s12008-023-01277-w.
- [29] R. Gogoi, N. Kumar, S. Mireja, S. S. Ravindranath, G. Manik, and S. Sinha, "Effect of hollow glass microspheres on the morphology, rheology and crystallinity of short bamboo fiber-reinforced hybrid polypropylene composite," *Jom*, vol. 71, no. 2, pp. 548–558, 2019, doi: 10.1007/s11837-018-3268-3.
- [30] H. S. Ashrith, M. Doddamani, and V. Gaitonde, "Effect of wall thickness and cutting parameters on drilling of glass microballoon/epoxy syntactic foam composites," *Composite Structures*, 2018, doi: 10.1016/j.compstruct.2018.12.022.
- [31] G. M. Perkasa, "the Effect Analysis of Epoxy-Hollow Glass Microspheres Composites To the External Helmet Material in Producing Impact ...," Institut Teknologi Sepuluh Nopember, 2016.
- [32] M. Imran, A. Rahaman, and S. Pal, "Effect of low concentration hollow glass microspheres on mechanical and thermomechanical properties of epoxy composites," *Polymer Composites*, vol. 40, no. 9, pp. 3493–3499, 2019, doi: 10.1002/pc.25211.

- [33] A. V Ullas, D. Kumar, and P. K. Roy, "Epoxy-glass microballoon syntactic Foams : rheological optimization of the processing window," vol. 2019, 2019.
- [34] N. Utami and E. Cahyo, "Sifat Mekanik Komposit Fiberglass Melalui Uji Lentur," *Teknika STTKD: Jurnal Teknik, Elektronik, Engine*, vol. 8, no. 2, pp. 322–329, 2022, doi: 10.56521/teknika.v8i2.798.
- [35] P. Fang, Y. Xu, Y. Gao, L. Ali, and Y. Bai, "Mechanical responses of a fiberglass flexible pipe subject to tension & internal pressure," *Thin-Walled Structures*, vol. 181, no. December 2021, p. 110107, 2022, doi: 10.1016/j.tws.2022.110107.
- [36] A. M. Karataş and H. Gökkaya, "A review on machinability of carbon fiber reinforced polymer (CFRP) and glass fiber reinforced polymer (GFRP) composite materials," *Defence Technology*, vol. 14, no. 4, pp. 318–326, 2018, doi: 10.1016/j.dt.2018.02.001.
- [37] J. Li, D. R. Salim, S. M. Aldlemy, M. J. Abdullah, and M. Z. Yaseen, "Fiberglass-reinforced polyester composites fatigue prediction using novel data-intelligence model," *Arabian Journal for Science and Engineering*, vol. 44, no. 4, pp. 3343–3356, 2019, doi: 10.1007/s13369-018-3508-4.
- [38] C. Pramono, S. Widodo, and M. G. Ardiyanto, "Karakteristik Kekuatan Tarik Komposit Berpenguat Serat Ampas Tebu Dengan Matriks Epoxy," *Journal of Mechanical Engineering*, vol. 3, no. 1, pp. 1–7, 2019, doi: 10.31002/jom.v3i1.1442.
- [39] H. Sukanto, W. W. Raharjo, D. Ariawan, J. Triyono, and M. Kaavesina, "Epoxy resins thermosetting for mechanical engineering," *Regular Article*, pp. 797–814, 2021.
- [40] R. A. Supriyadi *et al.*, "Pengaruh jumlah layer Dan orientasi sudut filler karbon Pada polymer matrix composite terhadap kekuatan tarik Dan impact," *Prosiding SENASTIAN*, vol. 1, pp. 149–156, 2021.
- [41] A. Saputra and K. M. L. Amali, "Karakteristik Tegangan Tembus Ac Pada Material Isolasi Padat Campuran epoxy resin dengan Tongkol Jagung," *Foristek*, vol. 12, no. 1, pp. 43–49, 2022.
- [42] 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.
- [43] "Universal Testing Machine." Accessed: Dec. 19, 2021. [Online]. Available: <http://www.alatuji.com/article/detail/395/universal-testing-machine-utm-395#.Yb4n6clBzIU>

- [44] Northon Company, "ASTM D3039, standard test method for tensile properties of polymer matrix composite materials," *ASTM International*, vol. 15, 2002.
- [45] A. Sutiani, "Metoda karakterisasi bahan polimer," vol. 10, no. 1, 2009.
- [46] V. Malau, "Karakterisasi sifat mekanis dan sifat fisis komposit e-glass dan resin eternal 2504 dengan variasi kandungan serat, temperatur dan lama curing," *MEKANIKA*, vol. 8, pp. 144–149, 2010.
- [47] W. Yu, H. Xue, and M. Qian, "Tensile and compressive properties of epoxy syntactic foams reinforced by short glass fiber," *Indian Journal of Engineering and Materials Sciences*, vol. 24, no. 4, pp. 283–289, 2017.
- [48] A. Benkhelladi, H. Laouici, and A. Bouchoucha, "Tensile and flexural properties of polymer composites reinforced by flax , jute and sisal fibres American Standards of Technical Material," pp. 895–916, 2020.
- [49] ASTM Headquarters, "ASTM D790, Standard test methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials," *ASTM International*, 2003.
- [50] T. Endramawan and A. Sifa, "Perancangan alat uji impak metode charpy," *IRWNS*, no. 08, pp. 196–199, 2013.
- [51] Harijono and H. Purwanto, "Analisis Keakuratan Hasil Uji Impact dengan Metode Izod dan Charpy," *Prosiding Seminar Nasional Hasil Penelitian 2017*, pp. 130–135, 2017.
- [52] Sentra Teknologi Polimer, "ISO 179.pdf," 2010.
- [53] M. I. Alim, A. Firdausi, and M. D. Nurmalasari, "Densitas dan Porositas Batuan," *Fisika Laboratorium*, no. January, pp. 1–3, 2017, doi: 10.13140/RG.2.2.21184.89607.
- [54] F. G. Purba, Y. Umardani, and A. Suprihanto, "Analisa Pengaruh Tekanan dan Suhu Terhadap Pengujian Hasil Pembuatan Insol Sepatu dari Material Komposit Silicone Rubber dan Talc Menggunakan Cetakan Alumunium dengan Proses Injection Molding," *Jurnal Teknik Mesin S-1*, vol. 11, no. 1, pp. 1–15, 2023.
- [55] M. Fatimura, Daryanti, and Santi, "Pembuatan biodiesel dari minyak jelantah bekas rumah makan dengan variasi penambahan katalis KOH pada transesterifikasi," *Jurnal Redoks*, vol. 1, no. 2, 2016.
- [56] L. Wang, J. Zhang, X. Yang, C. Zhang, W. Gong, and J. Yu, "Flexural properties of epoxy syntactic foams reinforced by fiberglass mesh and / or short glass fiber," *JOURNAL OF MATERIALS&DESIGN*, vol. 55, pp. 929–936, 2014, doi: 10.1016/j.matdes.2013.10.065.

- [57] A. Abbadi *et al.*, “Simulation modelling practice and theory experimental and numerical characterization of honeycomb sandwich composite panels,” *Simulation Modelling Practice and Theory*, vol. 17, no. 10, pp. 1533–1547, 2009, doi: 10.1016/j.simpat.2009.05.008.
- [58] Triyono, “Perancangan dan pembuatan cetakan komposit untuk metode vacuum Infusion Menggunakan penekan elastomer bag,” Universitas Islam Indonesia, 2019.
- [59] R. E. P. Atmanegara, T. W. Pribadi, and M. S. Arif, “Analisis Teknis dan Ekonomis Pembangunan Kapal Ikan 30GT Konstruksi FRP Menggunakan Metode Laminasi Vacuum Infusion,” *Jurnal Teknik ITS*, vol. 5, no. 1, 2016, doi: 10.12962/j23373539.v5i1.15827.
- [60] K. Abdurohman, T. Satrio, L. N. Muzayadah, and Teten, “A comparison process between hand lay-up , vacuum infusion and vacuum bagging method toward e-glass EW 185 / lycal composites,” *Journal Of Physics*, vol. 1130, pp. 0–10, 2018.