

DAFTAR PUSTAKA

- [1] A. A. B. A. Mohammed *et al.*, "Corn: Its structure, polymer, fiber, composite, properties, and applications," *Polymers*, vol. 14, no. 20, 2022, doi: 10.3390/polym14204396.
- [2] E. F. Hartono and N. Rachmat, "Klasifikasi Jenis Plastik HDPE , LDPE , Dan PS Berdasarkan Tekstur Menggunakan Metode Support Vector Machine," vol. 9, no. 2, pp. 1403–1412, 2022.
- [3] L. Muharrami, "Analisa DSC terhadap sintesis plastik HDPE - Fly Ash," *Encyclopedia of Sustainability Science and Technology*, vol. 7, no. 1, pp. 37–42, 2014, doi: 10.1007/978-1-4419-0851-3_121.
- [4] R. Rodiawan, S. Suhdi, and F. Rosa, "Analisa sifat-sifat serat alam sebagai penguat komposit ditinjau dari kekuatan mekanik," *Turbo : Jurnal Program Studi Teknik Mesin*, vol. 5, no. 1, pp. 39–43, 2016, doi: 10.24127/trb.v5i1.117.
- [5] M. Riza, M. Riza, and A. Irham, "Analisis kekuatan mekanik dari limbah kulit kopi dan serat kulit jagung sebagai pengganti agregat pada beton jenis polime," *Jurnal Teknik Mesin*, vol. 10, no. 1, pp. 19–24, 2022.
- [6] N. H. Sari, *Teknologi Papan Komposit* -. Sleman Yogyakarta: Deependublish, 2019.
- [7] S. N. Sarwati, W. Zarina, and W. Mohamed, "Performance of Corn Husk Fiber Reinforced Thermoplastic Biocomposites," *Asean Journal of Life Sciences*, vol. 1, no. 2, pp. 23–28, 2021.
- [8] A. K. Mehrjerdi, B. Adl-zarrabi, S. Cho, and M. Skrifvars, "Mechanical and Thermo-Physical Properties of High-Density Polyethylene Modified with Talc," *Journal of Applied Polymer Science*, pp. 2128–2138, 2013, doi: 10.1002/app.38945.
- [9] A. Shakoor and N. Thomas, "Talc as a nucleating agent and reinforcing filler in poly(lactid acid) composites," *Polymers Engineering and Science*, pp. 1–10, 2014, doi: 10.1002/pen.
- [10] A. O. Bouakkaz, A. Albedah, B. B. Bouiadjra, S. M. A. Khan, F. Benyahia, and M. Elmequenni, "Effect of temperature on the mechanical properties of polypropylene–talc composites," *Journal of Thermoplastic Composite Materials*, vol. 31, no. 7, pp. 896–912, 2018, doi: 10.1177/0892705717729016.
- [11] U. Fathanah, "Kualitas Papan Komposit dari Sekam Padi dan Plastik HDPE Daur Ulang Menggunakan Maleic Anhydride (MAH) sebagai Compatibilizer," *Jurnal Rekayasa Kimia dan Lingkungan*, vol. 8, no. 2, pp. 53–59, 2011.
- [12] Waryat, M. Romli, A. Suryani, I. Yuliasih, and S. Johan, "Karakteristik Morfologi, Termal, Fisik-mekanik, dan Barrier Plastik Biodegradabel Berbahan Baku Komposit Pati Termoplastik LLDPE/HDPE," *Agritech*, vol. 33, no. 2, pp. 197–207, 2013.

- [13] E. Roumeli, Z. Terzopoulou, and E. Pavlidou, "Effect of maleic anhydride on the mechanical and thermal properties of hemp/high-density polyethylene green composites," 2015, doi: 10.1007/s10973-015-4596-y.
- [14] A. B. Ismail, H. B. A. Bakar, and S. B. Shafei, "Comparison of LDPE/corn stalk with eco degradant and LDPE/corn stalk with MAPE: Influence of coupling agent and compatibiliser on mechanical properties," *Materials Today: Proceedings*, vol. 31, pp. 360–365, 2020, doi: 10.1016/j.matpr.2020.06.234.
- [15] U. H. Hasyim, N. A. Yansah, and M. F. Nuris, "Modifikasi sifat kimia serbuk tempurung kelapa (STK) sebagai matriks komposit serat alam dengan perbandingan alkalisas NAOH dan KOH," *E - Journal UMJ*, vol. 15, no. 3, pp. 1–7, 2018.
- [16] Nurfajri and K. Arwizet, "Analisis Kekuatan Tarik Komposit Serabut Kelapa Dan Ijuk Dengan Perlakuan Alkali (NaOH)," *Journal of Multidisciplinary Research and Development*, vol. 1, no. 4, pp. 791–797, 2019.
- [17] H. Nurcahyanto, "Evaluasi Sifat Mekanik High Density Polyethylene Yang Diisi Serat Batang Pisang Dan Partikel Zeolit Alam," *Traksi*, vol. 18, no. 2, p. 78, 2018, doi: 10.26714/traksi.18.2.2018.78-95.
- [18] G. Wypych, *Handbook of Polymers*. ChemTec Publishing, 2012.
- [19] S. E. Selke and R. J. Hernandez, "Packaging: Polymers for Containers," *Encyclopedia of Materials: Science and Technology*, pp. 6646–6652, 2001, doi: 10.1016/b0-08-043152-6/01175-x.
- [20] S. Puspawati, W. Sutari, and K. Kusumiyati, "Pengaruh konsentrasi pupuk organik cair (POC) dan dosis pupuk N, P, K terhadap pertumbuhan dan hasil tanaman jagung manis (*Zea mays* L. var *Rugosa Bonaf*) kultivar talenta," *Kultivasi*, vol. 15, no. 3, pp. 208–216, 2016, doi: 10.24198/kultivasi.v15i3.11764.
- [21] F. and A. Organization, "Produksi Jagung Indonesia Capai 22,5 Juta Ton pada 2020." Accessed: Apr. 06, 2023. [Online]. Available: <https://dataindonesia.id/sektor-riil/detail/produksi-jagung-indonesia-capai-225-juta-ton-pada-2020>
- [22] F. I. Aryanti, "Pembuatan Komposit Polimer Polipropilena/Talc/Masterbatch Hitam Pada Cover Tail," *Jurnal Teknologi dan Manajemen*, vol. 19, no. 1, pp. 1–6, 2021, doi: 10.52330/jtm.v19i1.8.
- [23] C. Nuraeni, R. Yunilawati, and D. Rahmi, "Sintesis Talc dari Batuan Dolomit dan Kuarsa Lokal Serta Prospeknya untuk Industri Kimia dan Farmasi," *Jurnal Kimia dan Kemasan*, vol. 38, no. 2, pp. 69–76, 2016, doi: 10.24817/jkk.v38i2.2700.
- [24] Pubchem, "Talc." Accessed: Aug. 01, 2023. [Online]. Available: <https://pubchem.ncbi.nlm.nih.gov/compound/Talc>

- [25] I. Kurniaty, U. Habibah, D. Yustiana, and I. Fajriah, "Proses delignifikasi menggunakan NaOH Dan amonia (NH₃) pada tempurung kelapa," *Jurnal Integrasi Proses*, vol. 6, no. 4, p. 197, 2017, doi: 10.36055/jip.v6i4.2546.
- [26] K. Witono, Y. Surya Irawan, R. Soenoko, and H. Suryanto, "Pengaruh Perlakuan Alkali (NaOH) Terhadap Morfologi dan Kekuatan Tarik Serat Mendong," *Jurnal Rekayasa Mesin*, vol. 4, no. 3, pp. 227–234, 2013.
- [27] E. Melyna and A. P. Afridana, "The Effect of Coffee Husk Waste Addition with Alkalisiation Treatment on the Mechanical Properties of Polypropylene Composites," *Equilibrium Journal of Chemical Engineering*, vol. 7, no. 1, pp. 14–22, 2023, doi: 10.20961/equilibrium.v7i1.68556.
- [28] K. S. Nisa, E. Melyna, and M. R. M. Samida, "Sintesis Biokomposit Serat Sabut Kelapa dan Resin Poliester dengan Alkalisasi KOH Menggunakan Metode Hand Lay-Up," *Journal of Science and Technology*, vol. 15, no. 3, pp. 354–361, 2022, doi: 10.21107/rekayasa.v15i3.16713.
- [29] F. Azzaharo, Y. Mardiyati, Steven, and R. R. Rizkiansyah, "Ekstraksi Serat Kulit Jagung sebagai Bahan Baku Benang Tekstil," *Majalah Polimer Indonesia*, vol. 18, no. 1, pp. 21–25, 2015.
- [30] M. Ghozali, P. D. B. Sinaga, and S. M. Yolanda, "Pengaruh konsentrasi anhidrida maleat dan proksida benzoil terhadap persen pencangkakan pada sintesis kompatibilizer polyethylene-graft-maleic anhydride," *Jurnal Kimia dan Kemasan*, vol. 38, no. 1, pp. 41–46, 2016.
- [31] Y. Jahani, "Comparison of the effect of mica and talc and chemical coupling on the rheology, morphology, and mechanical properties of polypropylene composites," *Polymers for Advanced Technologies*, vol. 22, no. 6, pp. 942–950, 2011, doi: 10.1002/pat.1600.
- [32] W. Liu, Y. J. Wang, and Z. Sun, "Effects of polyethylene-grafted maleic anhydride (PE-g-MA) on thermal properties, morphology, and tensile properties of low-density polyethylene (LDPE) and corn starch blends," *Journal of Applied Polymer Science*, vol. 88, no. 13, pp. 2904–2911, 2003, doi: 10.1002/app.11965.
- [33] T. Reinhart, *Overview of composite materials*. London: Chapman & Hall, 1998.
- [34] J. P. Jose, S. K. Malhotra, S. Thomas, K. Josep, K. Goda, and M. S. Sreekala, *Advances in Polymer Composites: Macro- and Microcomposites – State of the Art, New Challenges, and Opportunities*. Wiley-VCH Verlag & Co, 2012. doi: 10.1016/B978-0-12-821984-3.00003-6.
- [35] N. Srinivasulu and V. Tejaswi, "Mechanical Properties of Polymer Composite Materials," *International Journal of Research in Engineering and Technology*, vol. 01, no. 01, pp. 78–81, 2012, doi: 10.15623/ijret.2012.0101010.
- [36] N. H. Sari and Sinarep, "Analisa Kekuatan Bending Komposit Epoxy Dengan Penguatan Serat Nilon," *Dinamika Teknik Mesin*, vol. 1, no. 1, 2011, doi: 10.29303/d.v1i1.130.

- [37] T. G. Chiciudean, *Production methods and characteristics of bacterial-cellulose composites*. Romania: Bibliogr, 2011.
- [38] F. C. Campbell, "Structural Composite Materials," ASM International.
- [39] E. K. Silviya, S. Varma, G. Unnikrishnan, and S. Thomas, "Compounding and mixing of polymers," *Advances in Polymer Processing: From Macro- To Nano-Scales*, pp. 71–105, 2009, doi: 10.1533/9781845696429.1.71.
- [40] P. STMI, "Petunjuk praktik komposit polimer," 2019.
- [41] K. Kodre, S. Attarde, P. Yendhe, R. Patil, and V. Barge, "Differential scanning calorimetry," *Journal of Pharmaceutical Analysis*, vol. 3, no. 3, pp. 60–71, 2014.
- [42] S. Puspitasari, "Preparasi dan Karakterisasi Beads Alginat:Selulosa Xantat dari Ampas Tebu melalui Metode Gelasi Ionik dengan CaCO₃ Sebagai Porogen," 2017.
- [43] A. K. Ahmed, M. Atiqullah, R. Pradhan, and M. A. Al-, "Crystalization and melting behavior of i-PP: a perspective from flory's thermodynamic equilibrium theory and DSC experiment," *RSC Advances*, pp. 42491–42504, 2017, doi: 10.1039/c7ra06845j.
- [44] D. Samsudin, H. Ismail, N. Othman, and Z. A. Abdul Hamid, "Comparative study of glut palmitate salt and polyethylene grafted maleic anhydride compatibilizer on the properties of silica filled high-density polyethylene composites," *Polymer Testing*, vol. 52, pp. 104–110, 2016, doi: 10.1016/j.polymertesting.2016.03.017.
- [45] D. Ndiaye and A. Tidjani, "Effect of coupling agents on thermal and mechanical properties of wood flour/polypropylene composites," *Journal of Composite Materials*, vol. 46, no. 24, pp. 3067–3075, 2012, doi: 10.1177/0021998311435675.
- [46] F. M. Salleh, A. Hassan, R. Yahya, M. Rafiq, M. Isa, and R. A. Lafia-araga, "Physico-thermal properties of kenaf fiber/high-density polyethylene/maleic anhydride compatibilized composites," *High Performance Polymers*, pp. 1–11, 2018, doi: 10.1177/0954008318777574.
- [47] Asroni and D. Nurkholis, "Pengaruh komposisi resin poliester terhadap kekerasan dan kekuatan tarik komposit papan partikel onggok limbah singkong," *Jurnal Teknik Mesin*, vol. 5, no. 1, pp. 14–20, 2016.
- [48] A. D638, "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] I. Ahmad and L. P. Fern, "Effect of PE-g-MA-Compatibilizer on the Morphology and Mechanical Properties of 70 / 30 HDPE / ENR Blends," *Polymer Plastics Technology and Engineering*, vol. 45, pp. 735–739, 2007, doi: 10.1080/03602550600611271.