

## DAFTAR PUSTAKA

- [1] S. Balai, B. Kulit, D. Karet, dan Y. Plastik, “PENGARUH SERBUK SERAT BATANG PISANG SEBAGAI FILLER TERHADAP SIFAT MEKANIS KOMPOSIT PVC CaCO<sub>3</sub>,” 2012.
- [2] T. C. Sunarti, A. Suryani, dan I. Yuliasih, “APLIKASI ASAM STEARAT SEBAGAI COMPATIBILIZER PADA FILM KOMPOSIT TEPUNG UBI KAYU-LINEAR LOW DENSITY POLYETHYLENE APPLICATION OF STEARIC ACID AS COMPATIBILIZER ON CASSAVA FLOUR-LLDPE COMPOSITE FILM,” 2014.
- [3] Y. Hernández *dkk.*, “Stearic acid as interface modifier and lubricant agent of the system: Polypropylene/calcium carbonate nanoparticles,” *Polym Eng Sci*, vol. 59, no. s2, hlm. E279–E285, Mar 2019, doi: 10.1002/pen.25053.
- [4] B. Saha *dkk.*, “12.42 - Biobased composites for advanced applications: Possibilities and difficulties on the path to circularity,” dalam *Comprehensive Materials Processing (Second Edition)*, Second Edition., S. Hashmi, Ed., Oxford: Elsevier, 2024, hlm. 573–588. doi: <https://doi.org/10.1016/B978-0-323-96020-5.00188-6>.
- [5] I. P. Lokantara, “Pengaruh Panjang Serat Pada Temperatur Uji Yang Berbeda Terhadap Kekuatan Tarik Komposit Polyester Serat Tapis Kelapa, serat Tapis Kelapa,” *Jurnal Ilmiah teknik mesin, Universitas Udayana, Bali*, 2010.
- [6] O. Suparno, “Potensi Dan Masa Depan Serat Alam Indonesia Sebagai Bahan Baku Aneka Industri,” *Jurnal Teknologi Industri Pertanian*, hlm. 221–227, Sep 2020, doi: 10.24961/j.tek.ind.pert.2020.30.2.221.
- [7] N. Endriatno, “ANALISA PENGARUH VARIASI FRAKSI VOLUME TERHADAP DENSITAS DAN KEKUATAN TARIK SERAT PELEPAH PISANG – EPOKSI,” *Dinamika : Jurnal Ilmiah Teknik Mesin*, vol. 6, no. 2, Jul 2015, doi: 10.33772/djitm.v5i2.258.

- [8] T. Ojahan dan H. Aditia, “Analisis Fraksi Volume Serat Pelepah Batang Pisang Bermatriks Unsaturated Resin Polyester (UPR) Terhadap Kekuatan Tarik dan SEM,” 2015.
- [9] F. I. Aryanti dan D. A. Maghfira, “Pengaruh Penambahan Filler Talc Terhadap Sifat Termal dan Massa Jenis Komposit Polipropilena/Masterbatch Black The Effect of Talc Filler Component on Thermal and Density Properties of Polypropylene/Masterbatch Black Composites,” *Jurnal Ilmiah Teknik Kimia*, vol. 6, no. 2, 2022, doi: 10.32493/jitk.v6i2.19471.
- [10] E. Melyna, “Pengaruh Perlakuan Ekstraksi Limbah Ampas Kopi terhadap Sifat Mekanis Komposit Bermatriks Polipropilena,” *Jurnal Rekayasa Material, Manufaktur dan Energi*, vol. 6, no. 2, Sep 2023, doi: 10.30596/rmme.v6i2.14920.
- [11] R. F. Gibson, *Principles of composite material mechanics*.
- [12] K. Majeed *dkk.*, “Structural properties of rice husk and its polymer matrix composites: An overview,” dalam *Lignocellulosic Fibre and Biomass-Based Composite Materials: Processing, Properties and Applications*, Elsevier Inc., 2017, hlm. 473–490. doi: 10.1016/B978-0-08-100959-8.00022-6.
- [13] Mel M. Schwartz, *Composite Materials Handbook*. New York: McGraw-Hill, 1984.
- [14] J. C. Williams dan E. A. Starke, “Progress in structural materials for aerospace systems,” *Acta Mater*, vol. 51, no. 19, hlm. 5775–5799, Nov 2003, doi: 10.1016/j.actamat.2003.08.023.
- [15] N. H. Sari, “Teknologi Papan Komposit Diperkuat Serat Kulit Jagung,” 2019.
- [16] G. Wypych, *Handbook of polymers 2nd edition. In ChemTec Publishing*. 2016.
- [17] H. A. Maddah, “Polypropylene as a Promising Plastic: A Review,” *American Journal of Polymer Science*, vol. 6, no. 1, hlm. 1–11, 2016, doi: 10.5923/j.ajps.20160601.01.

- [18] E. A. Campo, “1 - Polymeric Materials and Properties,” dalam *Selection of Polymeric Materials*, E. A. Campo, Ed., dalam *Plastics Design Library*. , Norwich, NY: William Andrew Publishing, 2008, hlm. 1–39. doi: <https://doi.org/10.1016/B978-081551551-7.50003-6>.
- [19] A. Mahyudin, “Pengaruh Persentase Serat Pelepah Pisang Terhadap Sifat Fisik dan Mekanik Papan Semen-Foam agent,” *Jurnal Fisika Unand*, vol. 8, no. 1, 2019.
- [20] D. E. N. Siagian, M. Hakiem, dan S. Putra, “SERAT ALAM SEBAGAI BAHAN KOMPOSIT RAMAH LINGKUNGAN NATURAL FIBER AS AN ENVIRONMENTALLY FRIENDLY COMPOSITE MATERIAL,” 2024. [Daring]. Tersedia pada: <http://jurnalnasional.ump.ac.id?index.php/civeng>
- [21] R. Fuazzidin, R. Dewi Anjani, dan V. Naubnome, “Jurnal Pendidikan Teknik Mesin Undiksha Pengaruh Fraksi Volume Komposit Serat Pelepah Pisang Kepok Dengan Polyester Dan Filler Terhadap Sifat Mekanik Effect of Volume Fraction of Banana Kepah Fiber Composite With Polyester And Filler on Mechanical Properties,” 2023, doi: 10.23887/jptm.v11i2.66002.
- [22] S. Dri Handono, “KAJI EKSPERIMEN VARIASI JENIS SERAT BATANG PISANG UNTUK BAHAN KOMPOSIT TERHADAP KEKUATAN MEKANIK,” vol. 7, no. 2, 2018.
- [23] A. Patti, H. Lecocq, A. Serghei, D. Acierno, dan P. Cassagnau, “The universal usefulness of stearic acid as surface modifier: applications to the polymer formulations and composite processing,” *Journal of Industrial and Engineering Chemistry*, vol. 96, hlm. 1–33, 2021, doi: 10.1016/j.jiec.2021.01.024.
- [24] T. Candra Sunarti, A. Suryani, dan I. Yuliasih, “APLIKASI ASAM STEARAT SEBAGAI COMPATIBILIZER PADA FILM KOMPOSIT TEPUNG UBI KAYU-LINEAR LOW DENSITY POLYETHYLENE APPLICATION OF STEARIC ACID AS COMPATIBILIZER ON CASSAVA FLOUR-LLDPE COMPOSITE FILM,” 2014.

- [25] F. I. Aryanti dan Silvia, “Petunjuk praktik komposit polimer,” hlm. 5–7, 2019.
- [26] F. I. Aryanti, “Pembuatan Komposit Polimer Polipropilena/Talk/Masterbatch Hitam Pada Cover Tail,” *Jurnal Teknologi dan Manajemen*, vol. 19, no. 1, hlm. 1–6, Apr 2021, doi: 10.52330/jtm.v19i1.8.
- [27] P. B. Sinaga, “PEMBUATAN DAN KARAKTERISASI POLIMER MATRIKS KOMPOSIT BERBASIS LATEKS PEKAT SILIKA SEKAM PADI SKRIPSI PESTARIA BETESDA SINAGA”.
- [28] E. M. Ginting, “Sifat mekanis nano komposit termoplastik hdpe dengan beberapa bahan pengisi. Unimed, Medan,” 2016.
- [29] Strong, “Rheological and mechanical properties of polypropylene/calcium carbonate nanocomposites.,” hlm. 92–136, 2006.
- [30] F. Paundra *dkk.*, “ANALISIS KEKUATAN TARIK KOMPOSIT HYBRID BERPENGUAT SERAT BATANG PISANG KEPOK DAN SERAT PINANG,” *Journal Mechanical Engineering (NJME)*, vol. 11, no. 1, 2022.
- [31] I. Ismail dan M. Chalid, “Perilaku Kristalisasi Polipropilena dengan Penambahan Selulosa Mikrofibril Serat Sorgum sebagai Bio-Based Nucleating Agent,” *SPECTA Journal of Technology*, vol. 1, no. 1, 2017.
- [32] “ASTM D638-14”.
- [33] T. B. Santoso, F. I. Aryanti, dan T. D. A. Sitanggang, “Characterization of Mechanical, Thermal, and Physical Properties of Polypropylene Composites With Rice Husk Filler Using Coupling Agent Maleic Anhydride,” *Jurnal Teknologi Kimia Unimal*, vol. 12, no. 2, hlm. 216, 2023, doi: 10.29103/jtku.v12i2.13223.
- [34] E. Melyna dan A. Rais Jibalautada Hamidatu Rabbi, “Penambahan Limbah Ampas Kopi dengan Perlakuan Alkalisasi KOH pada Komposit Bermatriks Polipropilena,” *J Teknol*, vol. 11, no. 2, hlm. 2024–142, doi: 10.31479/jtek.v11i2.310.

- [35] T. Rachmi Hidayani, P. Evencus Hutajulu, N. Vita Mey Destty Marbun, E. Pardede, R. Paramitha, dan R. Silvia Nasution, “Karakterisasi Komposit Polimer dengan Matriks Polistirena dan Bahan Pengisi dari Berbagai Limbah Pabrik Kelapa Sawit,” *REACTOR: JOURNAL OF RESEARCH ON CHEMISTRY AND ENGINEERING*, vol. 5, no. 1, hlm. 8–14, 2024, doi: 10.52759/reactor.v5i1.115.
- [36] D. Kusić, U. Božič, M. Monzón, R. Paz, dan P. Bordón, “Thermal and mechanical characterization of banana fiber reinforced composites for its application in injection molding,” *Materials*, vol. 13, no. 16, Agu 2020, doi: 10.3390/MA13163581.
- [37] T. B. Santoso, F. I. Aryanti, dan T. D. A. Sitanggang, “CHARACTERIZATION OF MECHANICAL, THERMAL, AND PHYSICAL PROPERTIES OF POLYPROPYLENE COMPOSITES WITH RICE HUSK FILLER USING COUPLING AGENT MALEIC ANHYDRIDE,” *Jurnal Teknologi Kimia Unimal*, vol. 12, no. 2, hlm. 216, Nov 2023, doi: 10.29103/jtku.v12i2.13223.
- [38] A. A. Pratama, “PROSES PEMBUATAN MINYAK PELUMAS MINERAL MINYAK BUMI,” 2019.
- [39] K. Labidi, Z. Cao, M. Zrida, A. Murphy, A. H. Hamzaoui, dan D. M. Devine, “Alfa fiber/polypropylene composites: Influence of fiber extraction method and chemical treatments,” *J Appl Polym Sci*, vol. 136, no. 18, Mei 2019, doi: 10.1002/app.47392.
- [40] B. Neher, R. Hossain, K. Fatima, M. A. Gafur, Md. A. Hossain, dan F. Ahmed, “Study of the Physical, Mechanical and Thermal Properties of Banana Fiber Reinforced HDPE Composites,” *Materials Sciences and Applications*, vol. 11, no. 04, hlm. 245–262, 2020, doi: 10.4236/msa.2020.114017.
- [41] E. Melyna, K. S. Nisa, A. Aurel, dan L. Fitri, “Pengaruh penambahan serbuk alumina (Al<sub>2</sub>O<sub>3</sub>) pada komposit serat kayu jati bermatriks polipropilena The effect of alumina (Al<sub>2</sub>O<sub>3</sub>) addition on teak

powder and polypropylene composite,” *Jurnal Teknik Kimia*, vol. 29, no. 2, hlm. 2721–4885, 2023.