DAFTAR PUSTAKA

[1] T. S. Muzata, L. M. Matuana, dan M. Rabnawaz, "Challenges in the mechanical recycling and upcycling of mixed postconsumer recovered plastics (PCR): A review," *Current Research in Green and Sustainable Chemistry*, vol. 8, Jan 2024, doi: 10.1016/j.crgsc.2024.100407.

[2] P. G. C. Nayanathara Thathsarani Pilapitiya dan A. S. Ratnayake, "The world of plastic waste: A review," 1 Maret 2024, *Elsevier Ltd*. doi: 10.1016/j.clema.2024.100220.

[3] D. Nagy dan Z. Weltsch, "Crystallinity and Oscillatory Shear Rheology of Polyethylene Blends," *Materials*, vol. 16, no. 19, Okt 2023, doi: 10.3390/ma16196402.

[4] I. I. Salakhov *dkk.*, "Low-temperature mechanical properties of high-density and low-density polyethylene and their blends," *Polymers (Basel).*, vol. 13, no. 11, Jun 2021, doi: 10.3390/polym13111821.

[5] I. S. Lase *dkk.*, "Method to Develop Potential Business Cases of Plastic Recycling from Urban Areas: A Case Study on Nonhousehold End-Use Plastic Film Waste in Belgium," *ACS Sustain. Chem. Eng.*, vol. 11, no. 34, hlm. 12677–12694, Agu 2023, doi: 10.1021/acssuschemeng.3c02748.

[6] A. Kalantar Mehrjerdi, T. Bashir, dan M. Skrifvars, "Melt rheology and extrudate swell properties of talc filled polyethylene compounds," *Heliyon*, vol. 6, no. 5, Mei 2020, doi: 10.1016/j.heliyon.2020.e04060.

[7] R. Ballestar de las Heras, X. Colom, dan J. Cañavate, "Comparative Analysis of the Effects of Incorporating Post-Industrial Recycled LLDPE and Post-Consumer PE in Films: Macrostructural and Microstructural Perspectives in the Packaging Industry," *Polymers (Basel).*, vol. 16, no. 7, Apr 2024, doi: 10.3390/polym16070916.

[8] R. Esmaeilzade, K. A. Stainslavovich, M. H. Jandaghian, L. S. R. Hosseini, L. H. Saleh, dan S. Zarghampour, "Correlation of structure, rheological, thermal, mechanical, and optical properties in Low Density Polyethylene/Linear Low Density Polyethylene blends in the presence of recycled Low Density Polyethylene and Linear Low Density Polyethylene," *Polym. Eng. Sci.*, vol. 64, no. 3, hlm. 1286–1298, Mar 2024, doi: 10.1002/pen.26614.

[9] R. Ballestar, C. Pradas, F. Carrillo-Navarrete, J. Cañavate, dan X. Colom, "Circular

Economy Assessment in Recycling of LLDPE Bags According to European Resolution, Thermal and Structural Characterization," *Polymers (Basel).*, vol. 14, no. 4, Feb 2022, doi: 10.3390/polym14040754.

[10] G. Galasso, R. Cipullo, V. Busico, dan A. Vittoria, "Comonomer Reactivity Trends in Catalytic Ethene/1-Alkene Copolymerizations to Linear Low-Density Polyethylene," *Polymers (Basel).*, vol. 17, no. 17, Sep 2025, doi: 10.3390/polym17172290.

[11] A. Graziano, S. Jaffer, dan M. Sain, "Review on modification strategies of polyethylene/polypropylene immiscible thermoplastic polymer blends for enhancing their mechanical behavior," 1 Juni 2019, *SAGE Publications Ltd*. doi: 10.1177/0095244318783806.

[12] D. Irwanto, B. Pidhatika, D. W. Nurhajati, dan S. Harjanto, "Mechanical properties and crystallinity of linear low density polyethylene based biocomposite film," *Majalah Kulit, Karet, dan Plastik*, vol. 35, no. 2, hlm. 93, Jan 2020, doi: 10.20543/mkkp.v35i2.5624.

[13] A. Petrovič *dkk.*, "Comparative Analysis of Virgin and Recycled Thermoplastic Polymer based on Thermochemical Characteristics," *Chem. Eng. Trans.*, vol. 94, hlm. 1321–1326, 2022, doi: 10.3303/CET2294220.

[14] I. Widiastuti, H. C. Saputra, S. S. Wisnu Kusuma, dan B. Harjanto, "Mechanical and thermal properties of recycled high-density polyethylene/bamboo with different fiber loadings," *Open Engineering*, vol. 12, no. 1, hlm. 151–156, Jan 2022, doi: 10.1515/eng-2022-0010.

[15] A. Rigail-Cedeño *dkk.*, "Processability and Physical Properties of Compatibilized Recycled HDPE/Rice Husk Biocomposites," *Journal of Manufacturing and Materials Processing*, vol. 6, no. 4, Agu 2022, doi: 10.3390/jmmp6040067.

[16] P. Olesik, M. Godzierz, M. Kozioł, J. Jała, U. Szeluga, dan J. Myalski, "Structure and mechanical properties of high-density polyethylene composites reinforced with glassy carbon," *Materials*, vol. 14, no. 14, Jul 2021, doi: 10.3390/ma14144024.

[17] S. U. Dewi dan R. Purnomo, "PENGARUH TAMBAHAN LIMBAH PLASTIK HDPE (HIGH DENSITY POLYETHYLENE) TERHADAP KUAT TEKAN BETON PADA MUTU K.125," 2016.

[18] P. T. H. Nga dan V. T. Nguyen, "Experimental study on mechanical behavior of polypropylene-based blends with talc fillers," *Advances in Science, Technology and*

Engineering Systems, vol. 5, no. 6, hlm. 571–576, 2020, doi: 10.25046/aj050669.

[19] M. Claverie *dkk.*, "Synthetic Talc and Talc-Like Structures: Preparation, Features and Applications," 12 Januari 2018, *Wiley-VCH Verlag*. doi: 10.1002/chem.201702763.

[20] A. Fajdek-Bieda dan A. Wróblewska, "The Use of Natural Minerals as Reinforcements in Mineral-Reinforced Polymers: A Review of Current Developments and Prospects," 1 September 2024, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/polym16172505.

[21] Abubakar SA dan Zakariya MA, "Development of A Compression Molding Machine for Recycling Plastic Wastes," hlm. 2023, 2025, doi: 10.379333/nipesproc/3.2.2023.59.

[22] F. Quadrini, G. Patrizii, A. Proietti, L. Iorio, D. Bellisario, dan L. Santo, "Compression Molding of Low-Density Polyethylene Matrix/Glass-Fiber-Reinforced Thick Laminates," *Polymers (Basel).*, vol. 16, no. 19, Okt 2024, doi: 10.3390/polym16192722.

[23] D. Saxena dan P. Maiti, "Utilization of ABS from plastic waste through single-step reactive extrusion of LDPE/ABS blends of improved properties," *Polymer (Guildf).*, vol. 221, Apr 2021, doi: 10.1016/j.polymer.2021.123626.

[24] A. J. Nowak, S. Waśkiewicz, O. Baszczeńska, K. Niesporek, M. Król, dan J. Hajnyš, "DSC of biodegradable plastic composites material," *J. Therm. Anal. Calorim.*, vol. 150, no. 2, hlm. 911–921, Jan 2025, doi: 10.1007/s10973-024-13434-8.

[25] M. Gao, S. Zhao, H. Yang, X. Wu, dan Y. Xiao, "An Analysis of the Influence of DSC Parameters on the Measurement of the Thermal Properties of Phase-Change Material," *Materials*, vol. 17, no. 23, Des 2024, doi: 10.3390/ma17235689.

[26] J. Guo *dkk.*, "Quality Changes of Low-Density Polyethylene (LDPE) Recyclates from the Pretreatment Process with a Cationic Surfactant and a Nonionic Surfactant as Cleaning Agents Upstream of Extrusion," *Processes*, vol. 10, no. 11, Nov 2022, doi: 10.3390/pr10112174.

[27] D. Liu *dkk.*, "Low-Cost Open-Source Melt Flow Index System for Distributed Recycling and Additive Manufacturing," *Materials*, vol. 17, no. 23, Des 2024, doi: 10.3390/ma17235966.

[28] E. C. Boz Noyan, F. Rehle, dan A. Boldizar, "Rheological and Functional Properties of Mechanically Recycled Post-Consumer Rigid Polyethylene Packaging Waste," *Materials*, vol. 17, no. 8, Apr 2024, doi: 10.3390/ma17081855.

[29] A. D. Patel, Z. O. G. Schyns, T. W. Franklin, dan M. P. Shaver, “Defining quality by quantifying degradation in the mechanical recycling of polyethylene,” *Nature Communications* , vol. 15, no. 1, Des 2024, doi: 10.1038/s41467-024-52856-8.

[30] G. F. Reed, F. Lynn, dan B. D. Meade, “Use of coefficient of variation in assessing variability of quantitative assays,” *Clin. Diagn. Lab. Immunol.*, vol. 9, no. 6, hlm. 1235–1239, Nov 2002, doi: 10.1128/CDLI.9.6.1235-1239.2002.

[31] A. Kalantar Mehrjerdi, D. Åkesson, dan M. Skrifvars, “Influence of talc fillers on bimodal polyethylene composites for ground heat exchangers,” *J. Appl. Polym. Sci.*, vol. 137, no. 42, Nov 2020, doi: 10.1002/app.49290.

[32] X. Yao *dkk.*, “Bio-based high-grafting-rate compatibilizer: Dynamic reactive extrusion synthesis of itaconic anhydride-based copolymers with polypropylene grafts and the application in plant fiber composites,” *Ind. Crops Prod.*, vol. 226, Apr 2025, doi: 10.1016/j.indcrop.2025.120619.

[33] I. Liotta *dkk.*, “Mitigation Approach of Plastic and Microplastic Pollution Through Mechanical Recycling of Polyethylene-Rich Plastic Fraction Recovered from Marine Environment,” *Microplastics*, vol. 5, no. 2, Jun 2026, doi: 10.3390/microplastics5020084.

[34] L. Tolymbekova *dkk.*, “Electron-Beam Radiation Crosslinking as a Route for Upgrading Recycled Polyethylene for Circular Economy Applications,” *Polymers (Basel).*, vol. 18, no. 14, hlm. 1719, Jul 2026, doi: 10.3390/polym18141719.

[35] S. A. Franklin *dkk.*, “Thermal treatment of high-density polyethylene films to increase crystallinity for the fabrication of superior radiation-grafted anion-exchange membranes for fuel cells,” *J. Mater. Chem. A Mater.*, vol. 14, no. 10, hlm. 5877–5889, Des 2025, doi: 10.1039/d5ta08440g.

[36] L. Merlonghi, M. Giacinti Baschetti, M. G. De Angelis, dan S. E. Barbosa, “Hydrogen Permeation in Polyethylene: Effect of Crystallinity on Gas Transport Coefficients at Different Temperatures,” *Journal of Polymer Science*, vol. 64, no. 3, hlm. 608–621, Feb 2026, doi: 10.1002/pol.20250882.

[37] E. C. Boz Noyan, F. Rehle, dan A. Boldizar, “Rheological and Functional Properties of Mechanically Recycled Post-Consumer Rigid Polyethylene Packaging Waste,” *Materials*, vol. 17, no. 8, Apr 2024, doi: 10.3390/ma17081855.