

DAFTAR PUSTAKA

- Alfian, Z., Tamrin, Eddiyanto, & Nasution, N. (2021a). Addition of divinyl benzene comonomer to glycidyl methacrylate grafting to cyclic natural rubber. *IOP Conference Series: Earth and Environmental Science*, 912(1). <https://doi.org/10.1088/1755-1315/912/1/012099>
- Alfian, Z., Tamrin, Eddiyanto, & Nasution, N. (2021b). Addition of divinyl benzene comonomer to glycidyl methacrylate grafting to cyclic natural rubber. *3rd International Conference on Natural Resources and Technology*. <https://doi.org/10.1088/1755-1315/912/1/012099>
- Bahulkar, S. S., Munot, N. M., & Surwase, S. S. (2015). Synthesis characterization of thiolated karaya gum and evaluation of effect of pH on its mucoadhesive and sustained release properties. *Carbohydrate Polymers*, 130, 183–190.
- Carraher, C.E. (2006). *Polymer Chemistry*. Seventh Edition. Taylor & Francis Group, LLC. New York.
- Cowd, M.A. (1991). *Kimia Polimer*. Bandung: Penerbit ITB.
- Courtenay, J.C., Johns, M.A., Galembeck, F., Deneke, C., Lanzoni, E.M., Costa, C.A., Scott, J.L., Sharma, R.I. (2017). Surface modified cellulose scaffolds for tissue engineering, *Cellulose*. 24: 253–267.
- Chusna, S. F.(2002). *Kajian Pembuatan Karet Siklo Berbobot Molekul Rendah*. Tesis. Bogor: Program Pasca Sarjana Institut Pertanian Bogor.
- Dong-yan, W. (2004). Research on Synthesis of Glycidyl Methacrylate. *Fine and Specialty Chemicals*. <https://api.semanticscholar.org/CorpusID:100787513>
- Dijk-Wolthuis, W. N. E. Van, Franssen, O., Talsma, H., van Steenbergen, M. J., den Bosch, J. J. K., & Hennink, W. E. (1995). Synthesis, characterization, and polymerization of glycidyl methacrylate derivatized dextran. *Macromolecules*, 28, 6317–6322.
- Dewanti, D.P. (2018). Potensi Selulosa dari Limbah Tandan Kosong Kelapa Sawit untuk Bahan Baku Bioplastik Ramah Lingkungan. *Jurnal Teknologi Lingkungan*. 19(1):81–88.

- Darikson, J. (2021). Potensi Selulosa Dari Limbah Tandan Kosong Kelapa Sawit Sebagai Bahan Baku Bioplastik Ramah Lingkungan Dengan Metode *Atom Transfer Radical Polymerisation* Skripsi.
- Eddiyanto. (2007). *Functionalisation of polymers: reactive processing, structure and performance characteristics*. Aston University.
- Eddiyanto, E., Nababan, A., & Sinaga, A. (2022). Modification Of Natural Rubber Sir-20 With Cyclisation and Grafting Methods with Maleic Anhydride. *Indonesian Journal of Chemical Science and Technology (IJCST)*, 5(2), 67.
- Eddiyanto, E., Nainggolan, B., & Sipayung, M. (2022). Process and Characterization of Modification of Natural Rubber (SIR-20) with Grafting Maleat Anhydride. *AIP Conference Proceedings*, 2659(July 2004).
- Eddyanto, Ardina, Y. W., & Siregar, M. S. (2013). *Modifikasi Proses Pembuatan Karet Alam Siklis (Cyclic Natural Rubber) Melalui Reaksi Pemutusan Rantai (Chain Scission) Dan Siklisasi*. 18(1), 55–61.
- Gaol, M., Mousavi, M., Yousefi, H., Labbafi, M. (2014). All-cellulose nanocomposite film made from bagasse cellulose nanofibers for food packaging application. *Carbohydr. Polym.* 104: 59–65.
- Gapkindo. (2019). Berita Karet. <https://www.gapkindo.org/beritakaret/418-berita-karet>
- Handayani, P. A., Nurjanah, E., & Rengga, W. D. P. (2014). Pemanfaatan limbah sekam padi menjadi silika gel. *Jurnal bahan alam terbarukan*, 3(2), 55-59.
- Kaesaman, A., & Lamleah, S. (2023). Influence of vulcanization system on curing, mechanical, dynamic and morphological properties of maleated natural rubber and its thermoplastic vulcanizate with thermoplastic copolyester elastomer. *Express Polymer Letters*, 17, 675–689. <https://doi.org/10.3144/expresspolymlett.2023.50>
- Kobe. (2021). Sifat-Sifat Karet Alam dan Sintesis. <https://www.kobeglobal.com/mengenal-Sifat-Sifat-Karet-Alam-Dan-Sintesis/>.
- Mashabi, R. A., Khan, A., & Elwakeel, K. Z. (2022). Chitosan- or glycidyl methacrylate-based adsorbents for the removal of dyes from aqueous

- solutions: a review. *Material Advances*, 3(I), 5645–5671.
<https://doi.org/10.1039/d2ma00320a>
- Mulyadi, I. (2019). Isolasi Dan Karakterisasi Selulosa : Review. *Jurnal Saintika UNPAM*, 1(2), 177–182.
- Nasruddin. (2018). Sifat Mekanik Rubber Waves Dari Komposit Karet Alam Dan Karet Sintesis Menggunakan Multi Filler. *Jurnal Dinamika Penelitian Industri*, 29(1), 35–45.
- Perdana, R. P. (2019). Kinerja Ekonomi Karet Dan Strategi Pengembangan Hilirisasinya Di Indonesia Indonesia ' S Rubber Ecoomic Performance And Its Downstream Development Strategy. 37(1), 25–39.
<http://dx.doi.org/10.21082/fae.v37n1.2019.25-39>
- Putranto V.H., E. Kusumastuti, dan Jumaeri. (2015). Pemanfaatan Zeolit dari Abu Sekam Padi dengan Aktivasi Asam untuk Penurunan Kesadahan Air. *Jurnal MIPA*, 32(2), 164-173.
- Pratiwi, R., Rahayu, D., & Barliana, M. I. (2016). *Pemanfaatan Selulosa dari Limbah Jerami Padi (Oryza sativa) sebagai Bahan Bioplastik* (Vol. 3, Issue 3).
- Qi, J. (2003). *Research on synthesis of glycidyl methacrylate*.
<https://api.semanticscholar.org/CorpusID:101579949>
- Raja, P. R., Hagood, A. G., Peters, M. A., & Croll, S. G. (2013). International Journal of Adhesion & Adhesives Evaluation of natural rubber latex-based PSAs containing aliphatic hydrocarbon tackifier dispersions with different softening points — Adhesive properties at different conditions. *International Journal of Adhesion and Adhesives*, 41, 160–170.
<https://doi.org/10.1016/j.ijadhadh.2012.11.009>
- Rizki, A. D. (2020). *Pembuatan Zat Aktif Antioksi dan Konjugat Kitosan-Asam Ferulat Menggunakan Inisiator Golongan Alkohol Melalui Metode Grafting Radikal Bebas*. <http://dspace.uui.ac.id/123456789/24682>
- Safitri, D. I., Tuslinah , L., & Zustika, D. S. (2019). Pemanfaatan Sekam Padi sebagai Adsorben pada Air Laut dan Zat Warna. *Pharmacoscript*, 2(1), 45-54.
- Setiawan, D. H dan A. Andoko. 2005. Petunjuk Lengkap Budi Daya

- Karet. Agromedia Pustaka, Jakarta.
- Setyamidjaja, 1993. Karet budidaya dan Pengolahan, Kanisius, Jakarta.
- Slagman, S., Zuilhof, H., & Franssen, M. C. R. (2018). Laccase-Mediated Grafting on Biopolymers and Synthetic Polymers: A Critical Review. *Chembiochem : A European Journal of Chemical Biology*, 19(4), 288–311. <https://doi.org/10.1002/cbic.201700518>
- Siahaan, dkk. (2013). “Penentuan Kondisi Optimum Suhu dan Waktu Karbonisasi Pada Pembuatan Arang Dari Sekam Padi”. *Teknik Kimia USU*, Vol 2, No. 1 (hlm.27).
- Siregar, M. S. (2015). *Grafting Product Of Maleic Anhydride Onto Cyclized Natural Rubber In An Internal Mixer: Physical Properties And Compatibility With Polyamide Produk*. 19(2), 176–181.
- Siregar, M. S., Ardilla, D., Eddiyanto, & Nasution, A. S. (2021). Grafting Of Maleic Anhydride Onto Cyclized Natural Rubber In The Melt Phase: The Effect Of Trimethylol Propane Triacrylate. *Journal Of Physics: Conference Series* 1764, *Pvj_Iscomset 2020*, 1–5.
- Siregar, M. S., Astuti, R. P., Fuadi, M., Ardilla, D., Nasution, A., D.M., M., & Eddiyanto. (2021). Pencangkakan Anhidrida Maleat Pada Karet Alam Siklis: Penambahandivinil Benzen Untuk Meningkatkan Derajat Pencangkakan (Grafting Of Maleic Anhydride Onto Cyclized Natural Rubber: The Presence Of Divinyl Benzeneto Increase Thegrafting Degree). *Jurnal Riset Teknologi Industri*, 15(2), 222–230.
- Siregar, M. S., Mentari, E. C., Ardilla, D., M D, M., Nasution, A., & Eddiyanto, E. (2021). Studi Suhu Transisi Gelas Produk Pencangkakan Anhidrida Maleat Pada Karet Alam Siklis: Metode Differential Scanning Calorimetry. *Jurnal Kimia Mulawarman*, 19(1), 45–50.
- Siregar, M. S., Thamrin, M., Basuki, W. S., & Eddiyanto. (2015). *Modifikasi Kimia Karet Alam Siklis (Cyclic Natural Rubber/Cnr) Dengan Teknik Grafting: Menggunakan Monomer Metil Metakrilat Dan Inisiator Benzoi Peroksida*.
- Stevens, M.P. (2001). Kimia Polimer. PT. Jakarta: Pradnya Paramita.
- Tanaka, Y., Tarachiwin, L., Sakdapipanich, J., Ute, K., Kitayama, T. (2005). Structural Characterization Of Terminal Group Of Natural Rubber 2.

- Uhl, A., Bitzer, M., Wolf, H., Hermann, D., Gutewort, S., Völkl, M., & Nagl, I. (2000). Peroxy Compounds, Organic. *Ullmann's Encyclopedia Of Industrial Chemistry*, 1–45.
- Wang, S., Lu, A., Zhang, L. (2016). Recent Advances In Regenerated Cellulose Materials. *Prog. Polym. Sci.* 53: 169–206.
- Wang, Z., Wang, Z., Zhang, Y., Jiang, F., dan Fang, H. (2014): Synthesis and Characterization of Designed Cellulose-graft-Polyisoprene Copolymers, *Polymer Chemistry*, 5(10): 3379–3388.
- Wirjosentono, B. (1995). Analisis Dan Karakterisasi Polimer. Cetakan Pertama. Edisi Pertama. Usu Pers. Medan.
- Xin-Bao, Z. (2007). *Research On The Synthesis Of Glycidyl Methacrylate*. <https://api.semanticscholar.org/Corpusid:100943926>
- Zaini, A., & Saleh, M. (2017). *Pengembangan Karet : Studi Kasus Di Kutai Timur*. Mulawrman University Press.
- Zainudin, Z., Baharulrazi, N., Hajjar, S., & Man, C. (2021). Natural Rubber Derivatives For Adhesives Applications: A Review. *Chemical Engineering Transaction*, 83 (September), 493-498. <http://dx.doi.org/10.3303/CET2183083>
- Zhang, J., Wu, J., Cao, Y., Sang, S., Zhang, J., dan He, J. (2009): Synthesis of cellulose benzoates under homogeneous conditions in an ionic liquid, *Cellulose*, 16: 299–308.