

DAFTAR PUSTAKA

- Ahn, S.H. *et al.* (2002) ‘Anisotropic material properties of fused deposition modeling ABS’, *Rapid Prototyping Journal*, 8(4), pp. 248–257. Available at: <https://doi.org/10.1108/13552540210441166>.
- Aryanto, P. *et al.* (2023) *Pengaruh suhu dan analisis kekuatan material PET (Polyethylene Terephthalate) terhadap ekstrusi pada mesin filamen maker 3D printer*.
- Avriansah, R., Teknik Mesin, J. and Manufaktur Negeri Bangka Belitung, P. (2022) *PROSIDING SEMINAR NASIONAL INOVASI TEKNOLOGI TERAPAN OPTIMASI PARAMETER PROSES 3D PRINTING TERHADAP KEKUATAN TARIK FILAMENT POLYETHYLENE TEREPHTHALET GLYCOL*.
- Baru, J. *et al.* (2024) *JURNAL TEKNIK INDUSTRI MANAJEMEN DAN MANUFAKTUR JURNAL TEKNIK INDUSTRI UNIVERSITAS PROKLAMASI 45 PERANCANGAN ALAT DAUR ULANG LIMBAH FILAMENT 3D PRINTING JENIS PLA/PLA+ SEBAGAI BAHAN BAKU PRODUKSI OBJEK 3D*. Available at: <https://ejournal.up45.ac.id/index.php/jtim>.
- Böhm, J., Marais, M.S. and van der Merwe, A.F. (2016) ‘3D Printing Dimensional Calibration Shape: Clebsch Cubic’, in, pp. 117–126. Available at: https://doi.org/10.1007/978-3-319-42432-3_15.
- Cardona, C., Curdes, A.H. and Isaacs, A.J. (2016) *Effects of Filament Diameter Tolerances in Fused Filament Fabrication*.
- Czyżewski, P. *et al.* (2022) ‘Influence of Extruder’s Nozzle Diameter on the Improvement of Functional Properties of 3D-Printed PLA Products’, *Polymers*, 14(2). Available at: <https://doi.org/10.3390/polym14020356>.
- Dohan, V., Galatanu, S.V. and Marsavina, L. (2024) ‘Mechanical evaluation of recycled PETG filament for 3D printing’, *Frattura ed Integrità Strutturale*, 18(70), pp. 310–321. Available at: <https://doi.org/10.3221/IGF-ESIS.70.18>.
- Dylan, M., Soewono, A. and Darmawan, M. (2022) *ANALISIS LAJU ALIRAN PADA NOZZLE PRINTER TIGA DIMENSI UNTUK MATERIAL THERMOPLASTIC POLYURETHANE*.
- Equbal, A. *et al.* (2024) ‘A recent review on advancements in dimensional accuracy in fused deposition modeling (FDM) 3D printing’, *AIMS Materials Science*, 11(5), pp. 950–990. Available at: <https://doi.org/10.3934/matricsci.2024046>.
- Ermolai, V. *et al.* (2024) ‘XYZ calibration cube - A misleading tool for achieving print accuracy’, in *Materials Research Proceedings*. Association of

American Publishers, pp. 23–34. Available at:
<https://doi.org/10.21741/9781644903377-4>.

Firmansyah, I. *et al.* (2025) *Rancang Bangun Mesin Extruder Filamen 3D Printing*.

Gibson, I., R.D.W., & S.B. (2015) *Additive Manufacturing Technologies 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Second Edition*.

Gomes, T.E. *et al.* (2022) ‘Controlling the properties of parts 3D printed from recycled thermoplastics: A review of current practices’, *Polymer Degradation and Stability*. Elsevier Ltd. Available at:
<https://doi.org/10.1016/j.polymdegradstab.2022.109850>.

Grgić, I. *et al.* (2023) ‘Accuracy of FDM PLA Polymer 3D Printing Technology Based on Tolerance Fields’, *Processes*, 11(10). Available at:
<https://doi.org/10.3390/pr11102810>.

Hendrawan, A. *et al.* (2023) *Optimasi Parameter Proses Terhadap Geometris Dimensi Pada Proses Cetak 3D Printing Berbahan Polyethylene Terephthalate (PET) Menggunakan Metode Taguchi*, Lubis & Wicaksono.

Herianto, Atsani, S.I. and Mastriswadi, H. (2020) ‘Recycled Polypropylene Filament for 3D Printer: Extrusion Process Parameter Optimization’, in *IOP Conference Series: Materials Science and Engineering*. Institute of Physics Publishing. Available at: <https://doi.org/10.1088/1757-899X/722/1/012022>.

IannGibsonn· DaviddRosen BrenttStucker Additive Manufacturing Technologies 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Second Edition (no date).

Jin, M. *et al.* (2018) ‘Filament Materials Screening for FDM 3D Printing by Means of Injection-Molded Short Rods’, *Macromolecular Materials and Engineering*, 303(12). Available at:
<https://doi.org/10.1002/mame.201800507>.

Kadhun, A.H., Al-Zubaidi, S. and Abdulkareem, S.S. (2023) ‘Effect of the Infill Patterns on the Mechanical and Surface Characteristics of 3D Printing of PLA, PLA+ and PETG Materials’, *ChemEngineering*, 7(3). Available at:
<https://doi.org/10.3390/chemengineering7030046>.

Kang, S.W. and Mueller, J. (2024) *PENGEMBANGANILMUPENGE TAHUANARTIKEL YANG MENARIK Pencetakan 3D multiskala melalui kontrol ukuran dan bentuk nosel aktif*, *Sci. Adv.* Available at:
www.DeepL.com/pro.

- Kristiawan, R.B. *et al.* (2021) ‘A review on the fused deposition modeling (FDM) 3D printing: Filament processing, materials, and printing parameters’, *Open Engineering*. De Gruyter Open Ltd, pp. 639–649. Available at: <https://doi.org/10.1515/eng-2021-0063>.
- Kunarto, K., and Pratama, A.A. (2021) ‘ANALISA TEMPERATUR PADA HEATER NOZZLE DENGAN VARIASI NOZZLE TERHADAP HASIL PRODUK PRINTER 3D MENGGUNAKAN FILAMENT PLA’, *Jurnal Teknik Mesin*, Vol 9, No. 1.
- Luthfianto, S. *et al.* (2023) *PERANCANGAN MESIN EXTRUDER FILAMEN 3D PRINTING DENGAN SIMULASI UJI TARIK FILAMEN LIMBAH PLASTIK JENIS PET*.
- Milovanović, A., Golubovic, Z. and Šulák, I. (2022) *Tensile properties of polypropylene additively manufactured by FDM*. Available at: <https://www.researchgate.net/publication/366696773>.
- Mwema, F.M. and Akinlabi, E.T. (2020) ‘Basics of Fused Deposition Modelling (FDM)’, in *SpringerBriefs in Applied Sciences and Technology*. Springer, pp. 1–15. Available at: https://doi.org/10.1007/978-3-030-48259-6_1.
- Nugroho, F.E., Putri, F. and Gunawan, I. (2023) ‘ANALISAPENGARUH KEMIRINGAN SUDUTS CREW EXTRUDER TERHADAP KEAKURATAN DIAMETER FILAMENT 3D PRINTER BERBAHAN RECYCLED ABS, RECYCLE HDPE, DAN POLYPROPYLENE’.
- Pamasaria, H.A. *et al.* (2020) ‘Optimasi Keakuratan Dimensi Produk Cetak 3D Printing berbahan Plastik PP Daur Ulang dengan Menggunakan Metode Taguchi’, *JMPM (Jurnal Material dan Proses Manufaktur)*, 4(1). Available at: <https://doi.org/10.18196/jmpm.4148>.
- Petsiuk, A.L. and Pearce, J.M. (2020) *Open Source 3-D Filament Diameter Sensor for Recycling, Winding and Additive Manufacturing Machines*.
- Du Plessis, A., Le Roux, S.G. and Steyn, F. (2016) ‘Quality Investigation of 3D Printer Filament Using Laboratory X-Ray Tomography’, *3D Printing and Additive Manufacturing*, 3(4), pp. 262–267. Available at: <https://doi.org/10.1089/3dp.2016.0011>.
- Rasid, M. *et al.* (2022) ‘ANALISA PENGARUH KEMIRINGAN SUDUT SCREW EXTRUDER PADA PROSES PEMBUATAN FILAMENT 3D PRINTER PADA MESIN EKSTRUSI SINGLE SCREW’, *AUSTENIT*, 14(1), pp. 54–60. Available at: <https://doi.org/10.53893/austenit.v14i1.4445>.
- Refat, M. *et al.* (2025) ‘Investigation of the Influence of Manufacturing on Filament Production and Its Impact on Additive Manufactured Structures’, *Polymers*, 17(5). Available at: <https://doi.org/10.3390/polym17050651>.

Sumardiyanto, D. and Putra, S. (2021) 'ALAT PENGOLAHAN LIMBAH FILAMENT 3D PRINT DENGAN Material PLA'.

Teguh Prakoso, A. *et al.* (2022) *PEMANFAATAN LIMBAH PLASTIK DALAM PEMBUATAN FILAMEN 3D PRINTER MENGGUNAKAN MESIN EKSTRUSI PADA LAB KONVERSI ENERGI UNIVERSITAS SRIWIJAYA*, *Jurnal Pelita Sriwijaya*.

Triyono, J. *et al.* (2020a) 'The effect of nozzle hole diameter of 3D printing on porosity and tensile strength parts using polylactic acid material', *Open Engineering*, 10(1), pp. 762–768. Available at: <https://doi.org/10.1515/eng-2020-0083>.

Triyono, J. *et al.* (2020b) 'The effect of nozzle hole diameter of 3D printing on porosity and tensile strength parts using polylactic acid material', *Open Engineering*, 10(1), pp. 762–768. Available at: <https://doi.org/10.1515/eng-2020-0083>.

ZHU, J. *et al.* (2021) 'A review of topology optimization for additive manufacturing: Status and challenges', *Chinese Journal of Aeronautics*. Chinese Journal of Aeronautics, pp. 91–110. Available at: <https://doi.org/10.1016/j.cja.2020.09.020>.