

## DAFTAR PUSTAKA

- Ashari, F. (2014). Studi eksperimen pengaruh variasi kecepatan putar spindle dengan pin tirus terhadap impact strength dan metallography polyethylene dengan metode friction stir welding. Surabaya: Skripsi Institute Teknologi Sepuluh November.
- Diqi, M. (2015). Pengaruh kecepatan rotasi tool terhadap sifat mekanik sambungan friction stir welding material polyamide dengan pemanas tambahan. Surakarta: Skripsi Universitas Negeri Sebelas Maret.
- Jaiganesh, V., Maruthu, B., dan Gopinath, E. (2014). Optimization of process parameters on friction stir welding of high density polypropylene plate. *Global congress on manufafcturing and management*, Volume 97, pp 1957-1965.
- Kopeliovich, D. (2019). [Online]  
Available at:  
[https://www.substech.com/dokuwiki/doku.php?id=shore\\_durometer\\_hardness\\_test](https://www.substech.com/dokuwiki/doku.php?id=shore_durometer_hardness_test)
- Kucukrendeci, I. (2019). The investigation of suitable welding parameters in polypropylene sheets joined with friction stir welding. *Bulletin of the polish academy of science*, Vol. 67, No. 1, pp 133-140.
- Mishra, RS., dan Ma, ZY. (2005). Friction stir welding and processing. *Materials science and engineering*, Volume 50, Issues 1–2, pp. 1–78.
- Moochani, A., Omidvar, H., Ghaffarian, SR., dan Goushegir, SM. (2018). Friction stir welding of thermoplastics with a new heat-assisted tool design: mechanical properties and microstructure. *International institute of welding*, Volume 63, Issue 1, pp 181–190.
- Moreno, MM., Romero, YM., Zambrano, HR., Zapata, NCR., Afoso, CRM., dan Silgado, JU. (2018). Mechanical and thermal properties of friction-stir welded joints of high density polyethylene using a non-rotational shoulder tool. *The international journal of advanced manufacturing technology*, Volume 97, Issue 5–8, pp 2489–2499.
- Panneerselvam, K., dan Lenin, K. (2013). Effect and defect of the polypropylene plate for different parameters in friction stir welding process. *Research scholar department of production engineering*, Volume: 2 Issue: 2, pp. 143 - 152.
- Prabowo, H., Triyono., dan Kusharjanta, B. (2013). Pengaruh kecepatan putaran tool dan pemanas tambahan terhadap kekuatan mekanik polypropylene hasil las friction stir welding. *Mekanika*, Volume 12 Nomor 1, pp 34-38.

- Prasad, RV dan Raghava, PM. (2012). Fsw of polypropylene reinforced with Al<sub>2</sub>O<sub>3</sub> nano composites, effect on mechanical and microstructural properties. *International journal of engineering research and applications (IJERA)*, Vol. 2, Issue 6, pp. 288-296.
- Rifai, A. (2015). *Makalah pengujian tarik*. Semarang: universitas negeri semarang.
- Sahu, SK., Mishra, D., Mahto, RP., Pal, SK., dan Pal, K. (2017). Friction stir welding of HDPE sheets: a study on the effect of rotational speed. *Design and research conference*, pp. 1065-1068.
- Sahu, SK., Mishra, D., Mahto, RP., Sharma, VM., Pal, SK., Pal, K., Banerjee, S dan Dash, P. (2018). Friction stir welding of polypropylene sheet. *Engineering science and technology, an international journal*, Volume 21, Issue 2, pp. 245-254.
- Setiawan, A., Irawan, YS., dan Purnowidodo, A. (2011). Pengaruh temperatur pelat landasan selama proses friction stir welding terhadap kekuatan tarik sambungan las lembaran HDPE. *Jurnal rekayasa mesin*, Vol.2, No. 3, pp 232-240.
- Triyono., Nugroho, B., dan Muhyat, N. (2015). Pengaruh plunge depth dan preheat terhadap sifat mekanik sambungan friction stir welding polyamide. *Proceeding seminar nasional tahunan teknik mesin*, volume 11, pp 77-82.
- Wibisono, Dw. (2014). Pengaruh shoulder depth of plunge terhadap sifat mekanik sambungan friction stir welding polypropylene dengan pemanas tambahan. Surakarta: Skripsi Universitas Negeri Sebelas Maret.