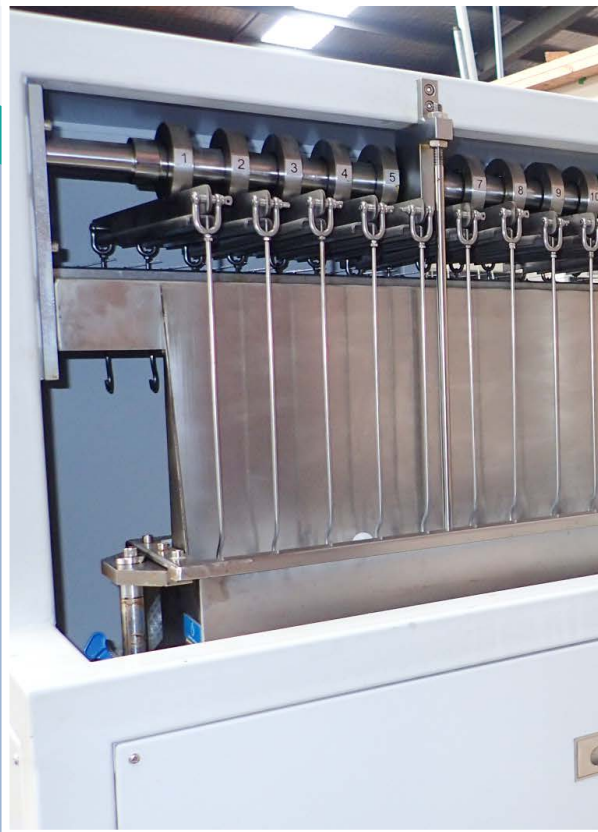


# Mechanical Testing



**WE KNOW POLYMERS - WE KNOW TESTING**

ExcelPlas has a range of mechanical testing capabilities including:

- Tensile testing from ambient to 300 deg.C
  - Impact testing (Izod, Charpy, Drop Dart, Low Temp Brittleness) from ambient to – 70° C
  - Hardness testing (Shore A, Shore D, Barcol hardness)
  - Macro and micro examinations of materials (Including both photo macro and micrographs)
  - Weld testing (complemented by our NDT capabilities)
  - Stress Cracking Resistance (bent strip, notched constant tensile load, strain hardening modulus method)
- 
- Hydrostatic testing
  - Pressure testing
  - Chemical analysis
  - Spectroscopic analysis
  - Bend tests (flexural)

Polyethylene Pipe Testing

ExcelPlas specialises in destructive testing of polyethylene welded joints to ISO 13953 (butt weld tensile test) and ISO 13954 (electrofusion peel test). The fracture appearance on testing is an important guide in interpreting the level of ductility, and therefore work quality of the welding work.

- Degree of Crosslinking (DOC) of PEX Pipe



Machining and Sample Preparation

Our state-of-the-art CNC machining centre allows CNC machining of parallel strip and tensile bar test specimens from thick walled pipe and sheet up to 50 mm thick to the exacting tolerances required by the ISO & ASTM standards. Our engineering machine shop is fully equipped with CNC mills and lathes. Bulk material removal of large samples is done using band saws enable us to cut difficult and complex shapes and materials so that test pieces and sample bars can be obtained from almost any size or geometry part.

- Granulator and Wiley Mill (Lab Mill)
- Compression Moulder/Plaquing Press
- Injection Moulder
- Grinding/Polishing

ExcelPlas leads the way with digital communication with news blasts and news feeds in the industries and sectors in which it operates. eNewsletters and eAlerts are sent to its key customers weekly to be 'front of mind' for testing and analysis needs.



PRODUCT TESTING WEBSITES

- <http://www.excelplas.com/>
- <http://www.polymertesting.com.au/>
- <http://www.polypipetesting.com.au/>
- <http://www.uvtesting.com.au/>
- <https://www.claddingtest.com/>
- <https://www.minidredgers.com.au/>

DIGITAL MARKETING WEBSITES

- <https://www.geosyntheticnews.com.au/>
- <https://www.polypipenews.com.au/>
- <https://www.claddingtest.com/news/>
- <https://www.cablnewsaustralia.com.au/>
- <https://www.tailingsnews.com.au/>
- <http://www.masterbatchnews.com.au/>



**contact: [www.excelplas.com](http://www.excelplas.com)**



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