

## July 2019 Vol. 3

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### PPN- The Leading Source of Industry News on Polymer Pipes and Plastic Pipe Failure

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NEWSMAKERS: \* Agru \* ExcelPlas \* Fletcher Building \* Iplex Pipelines \* KPIC \* PIPA \* Rio Tinto \* Santos

#### **Should Fletcher Building Persist with Australia? (TradeLink & Iplex Parent)**

[https://www.nzherald.co.nz/business/news/article.cfm?c\\_id=3&objectid=12252306](https://www.nzherald.co.nz/business/news/article.cfm?c_id=3&objectid=12252306)

#### **Fletcher Building Investor Presentation (Declassified)**

<https://fletcherbuilding.com/assets/incoming/Fletcher-Building-Investor-Day-Presentation.pdf>

#### **KPIC, a New Prestigious Raw Material Supplier for High Quality PE100 Pipe Resins**

<https://www.pe100plus.com/PE-Pipes/news/Welcome-to-a-new-prestigious-raw-material-supplier-i2022.html>

#### **Investigation on the Thermal Butt Fusion Performance of the Buried HDPE Piping in Nuclear Power Plant**

<https://www.sciencedirect.com/science/article/pii/S1738573318305709>

#### **NT Approves its First Plan to Allow Santos to Undertake Onshore Shale Gas Drilling**

HDPE pipework design & installation for gathering is required for drilling phase

<https://creamer.everlytic.net/servlet/link/4551/124178/15072011/4008461>

**APGA and PIPA Launch of Version 5 of the Code of Practice for Upstream PE Gathering Networks**

<https://www.pipa.com.au/index.php/launch-of-version-5-of-the-code-of-practice-for-upstream-pe-gathering-networks/>

**Australian Poly Solutions Specialises in HDPE Pipe Fusion Welding and Hydrostatic Testing Services with Knowhow and Experience you can rely on**

<https://www.aussiepoly.com.au/>

**Australian Lab ExcelPlas Recognised as Leaders in Poly Pipe Weld Testing and Failure Analysis**

<http://www.polypipetesting.com.au/>

**Expanding Polyethylene and Polypropylene Pipe Applications to High-Energy Areas by Applying Polyolefin-Bonded Antioxidants**

<https://pubs.acs.org/doi/full/10.1021/acs.macromol.9b00855>

**Agru Launch PE100-RC pipes with Protective Layer**

[https://www.youtube.com/watch?v=W78fu0Vv\\_cc](https://www.youtube.com/watch?v=W78fu0Vv_cc)

**Record-Breaking HDD-Installation of AGRU PE100 Pipes**

<https://www.youtube.com/watch?v=2d5idyrlbDs>

**Examining the Use of Recycled Plastics in Infrastructure Pipe**

<https://utilitymagazine.com.au/examining-the-use-of-recycled-plastics-in-infrastructure-pipe/>

**Design Considerations For Underground Hot Water Piping (New)**

[https://www.techstreet.com/ans/standards/engineer-s-notebook-design-considerations-for-underground-hot-water-piping?product\\_id=2076117](https://www.techstreet.com/ans/standards/engineer-s-notebook-design-considerations-for-underground-hot-water-piping?product_id=2076117)

**Lifetime of PE Pipe Material–Prediction using Strain Hardening Test (New)**

[https://www.researchgate.net/profile/E\\_Nezbedova/publication/...../Lifetime-of-Polyethylene-PE-Pipe-Material-Prediction-Using-Strain-Hardening-Test](https://www.researchgate.net/profile/E_Nezbedova/publication/...../Lifetime-of-Polyethylene-PE-Pipe-Material-Prediction-Using-Strain-Hardening-Test)

**Lifetime Estimation for Ductile Failure in Semicrystalline Polymer Pipes (New)**

<https://vtechworks.lib.vt.edu/handle/10919/91901>

**Experimental and Numerical Study of Bead Welding Behavior of HDPE Pipe Under Uniaxial Loading (New)**

<https://content.sciendo.com/view/journals/mme/23/1/article-p183.xml>

**Chlorinated Water Induced Aging of Pipe Grade Polypropylene Random Copolymers (New)**

<https://www.mdpi.com/2073-4360/11/6/996/pdf>

**Buckling of Thin-Walled High Density Polyethylene Liners Encased in Rigid Pipes (New)**

<https://ascelibrary.org/doi/10.1061/9780784482506.006>

**Study of Chemically Aged HDPE Pipe Material in Toluene-Methanol Mixture and Distilled Water (New)**

<https://aip.scitation.org/doi/10.1063/1.5116933>

**Rio Tinto Agrees to Provide Funding for the Cleanup of its Ranger Uranium Mine (Breaking News)**

HDPE piping systems will be needed for this operation

[http://www.nationalminingchronicle.com.au/news/19316-rio-tinto-agrees-to-fund-uranium-cleanup?utm\\_source=emarsys&utm\\_medium=email&utm\\_campaign=NMC+26%2F7%2F19](http://www.nationalminingchronicle.com.au/news/19316-rio-tinto-agrees-to-fund-uranium-cleanup?utm_source=emarsys&utm_medium=email&utm_campaign=NMC+26%2F7%2F19)

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**ExcelPlas - the Australian Pipes & Fittings Testing Laboratory**

- Accredited to ISO 17025 by the National Association of Testing Authorities (NATA) Australia, and is Australia's largest laboratory dedicated for the testing of plastic pipes and fittings to various Standards which include Australian, European and International Standards.
- The staff employed at the laboratory have a combined experience of more than 85 years within the plastics industry specifically with manufacturing, quality control and the research and development of plastic piping systems including HDPE, PEX, PP-R, PVC, U-PVC, M-PVC, O-PVC, ABS, GRP, GRE and PB.
- Services provided include conformance testing, compliance testing, batch release testing, root cause analysis for field failures and non-destructive testing of samples.
- <http://www.excelplas.com/>

### **ExcelPlas Lab Specialising in HDPE Pipe Condition Monitoring, Failure Analysis and Testing**

In the event of a HDPE butt weld or electrofusion weld failing during initial testing, or in service, we can conduct investigations to assist in identifying the root cause of the failure.

This service also extends to the premature failure of the pipe or fitting itself.

<http://www.excelplas.com/plastic-pipes>

### **ExcelPlas Pipe Testing is a Leader in the Field of Polyethylene (PE) and High-Density Polyethylene (HDPE) Testing**

ExcelPlas is accredited with the National Association of Testing Authorities (NATA) for butt weld tests, bend and tensile tests, peel decohesion tests on electro fusion sockets and failure mode determination

<http://www.polypipetesting.com.au/butt-fusion-welds/>

### **New UHMWPE Pipe for Tailing Offers Greater Than 4X the Abrasion Resistance of PE100 (Australia wide)**

<http://slurrypipes.com.au/>

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### **ExcelPlas Poly Pipe Weld Inspection Lists Top 7 Causes of Weld Failure:**

- Lack of scraping
- Inaccurate scraping

- Contamination from dirt, water, oil or clays
- Lack of Paralell-ness of fusion faces
- Misalignment of surfaces
- Time, temperature and pressure deviations
- Not adhering to cool times

We have extensive experience in inspection of poly pipe welds for assuring welded joint quality. Direct Poly Pipe Inspection ensures that operators are following the proven welding procedure; this reduces the occurrences of operational errors which lead to defects such as inclusions, lack of fusion (LoF), porosity and misalignment.

More information, contact [john@excelplas.com](mailto:john@excelplas.com)

**Get Your HDPE Pipe Products or Services Noticed – Advertise in Poly Pipe News (PPN) Australia**

<https://www.polypipenews.com.au/advertise/>

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Pipe Poly News (PPN) is now Australia's most current and comprehensive source of news on Polyethylene pipes and Poly Pipe Welding;

Poly Pipe News is now sent to over 4500 Poly Pipe Industry Members every week.

Any news requests should be sent to [john@excelplas.com](mailto:john@excelplas.com)  
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