

# July 2019 Vol. 4

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

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NEWSMAKERS: \* Aquatherm \* Agru \* ExcelPlas \* MOEC \* PIPA \* Reliance \* Tubi \* VBA \* Vinidex

### **Disrupting an Industry One Pipe at a Time (Feature Article)**

<https://www.livewiremarkets.com/wires/disrupting-an-industry-one-pipe-at-a-time>

### **Vinidex Fails in Contesting HDPE Pipe Manufacturing Patent**

Tubi's core patent was contested by Vinidex, who is the Australian subsidiary of Aliaxis, who is a leading global pipe company. Vinidex's contest failed thus ensuring the validity of Tubi's IP being novel. This also suggest that HDPE pipeline companies will see Tubi as a threat that can take material market share.

<https://www.livewiremarkets.com/wires/disrupting-an-industry-one-pipe-at-a-time>

### **New HDPE Pipe Installer**

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

### **Breaking News - CSG Impacts on Surat Basin Revealed in Draft Report**

<https://www.energynewsbulletin.net/policy/news/1367479/csg-impacts-on-surat-basin-revealed-in-draft-report>

**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/>

### **Descaling of HDPE-lined Brine Pipes**

<https://www.linkedin.com/pulse/descaling-brine-pipelines-progressive-effectiveness-luca-reinhart>

### **AGRU Supplies XXL PE100 Pipes for New City Territory in Monaco**

<http://www.agru.at/pt/aplicacoes/agru/line/tailored-pipe-system-in-xxl-format/>

### **King County Jail Plagued with Water Failures Stemming from Aquatherm Pipes**

<http://www.issaquahreporter.com/news/king-county-jail-lost-water-16-times-since-2018/>

### **King County will Spend \$23.5 million USD to Fix Jail's Leaking Aquatherm Pipes**

<https://www.seattleweekly.com/news/king-county-will-spend-23-5-million-to-fix-jails-leaking-pipes/>

### **Aquatherm Publishes Extensive List of Exclusions to PP-R Pipe Warranty (2019)**

[http://www.aquatherm.com.au/images/pdf/aquatherm\\_warranty\\_statement\\_2019.pdf](http://www.aquatherm.com.au/images/pdf/aquatherm_warranty_statement_2019.pdf)

### **Zurn Lawsuit Investigation for Plumbing Problems, Early Failure of PEX System**

<https://www.classaction.org/zurn-pex-plumbing-lawsuits>

### **ExcelPlas Labs Offer Global Pipe Failure Investigations**

ExcelPlas Labs have created a new benchmark in failure analysis of HDPE, PP-R, PB and PEX pipes in addition to PVC & CPVC pipes as well as composite GRP and GRE pipes. When a plastic pipeline fails to perform as intended, our team can determine the root cause of failure (e.g. oxidative failure, chemical failure, creep failure, over-stress failure, fatigue failure, design failure, etc). ExcelPlas are experienced with all plastic piping failure modes and mechanisms including Slow Crack Growth (SCG) Rapid Crack Propagation (RCP), Environmental Stress Crack Resistance (ESCR), Oxidative Stress Cracking (OSC), cyclic fatigue, manufacturing defects, and polymer material problems.

<http://www.excelplas.com/>

**Impressive Video of Tig Welding PEX-AL-PEX Pipe Production Line**

<https://www.youtube.com/watch?v=WhzvNRRP-qo>

**PIPA PUBLISHES UPDATE OF POLYETHYLENE PIPE AND FITTINGS COMPOUNDS**

<https://www.pipa.com.au/wp-content/uploads/2019/07/POP004.pdf>

**PIPA PUBLISHES UPDATE OF MATERIALS SPECIFIC TO ELECTROFUSION AND MOULDED FITTINGS**

<https://www.pipa.com.au/wp-content/uploads/2019/07/POP004A.pdf>

**VBA Publishes NCC 2019 Plumbing Presentation on Preventing Plumbing Failures**

[https://www.vba.vic.gov.au/\\_data/assets/pdf\\_file/0016/101095/VBA-NCC-2019-Plumbing-presentation.pdf](https://www.vba.vic.gov.au/_data/assets/pdf_file/0016/101095/VBA-NCC-2019-Plumbing-presentation.pdf)

**Introducing SharkBite PE-RT Pipe (NEW!)**

<https://www.youtube.com/watch?v=nl26n3Qzeul>

**Uponor Introduces New PEX Solutions for Radiant Heating**

<https://modernpumpingtoday.com/next-wave-radiant-new-solutions-radiant-heating-cooling-applications/>

**New Zealand Technical Forum of HDPE Pipes and Trenchless Technology**

<https://www.trenchless-australasia.com/events/techforums-new-zealand/>

**New Polymer Materials for Protection of City Gas Distribution Networks (New)**

<https://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=2739657>

**Improving Pipe Failure Predictions: Factors Affecting Pipe Failure in Drinking Water**

## Networks

<https://www.sciencedirect.com/science/article/abs/pii/S0043135419307006>

## Determination of Design Coefficients for New Polyethylene Pipes Used in the Rehabilitation of Old Pipelines (New)

<https://ascelibrary.org/doi/full/10.1061/%28ASCE%29PS.1949-1204.0000394>

## Numerical Simulation of Ductile Fracture in Polyethylene Pipe with Continuum Damage Mechanics (New)

<https://journals.sagepub.com/doi/abs/10.1177/1464420719863458>

## New Method to Calculate Hydraulic Transients in HDPE Pipes Using the Standard Solid Model (New)

<https://iopscience.iop.org/article/10.1088/1755-1315/240/5/052020/pdf>

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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/>

**This Newsletter is brought to you by Excelplas Labs, Australia's Largest group of Poly Pipe Testing Labs.**

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)  
To subscribe, visit <https://www.polypipenews.com.au/subscribe/>

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