

# January 2020 Vol. 2

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

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NEWSMAKERS: \* ASTM \* Downer \* Dow \* EPA \*Georg Fischer \* PPI \* Plasson \* Vinidex

### Georg Fischer Patents Novel Electrofusion Tape

<https://patents.google.com/patent/US20190366648A1/en>

### Investigating Peak Stresses in Fitting and Repair Patches of Buried Polyethylene Gas Pipes

<https://link.springer.com/article/10.1007/s11709-019-0587-6>

### Overview of Burst, Buckling, Durability and Corrosion Analysis of Lightweight FRP Composite Pipes and their Applicability

<https://www.sciencedirect.com/science/article/pii/S0263822319303472>

<http://cloud.excelplas.com/index.php/s/neGnSflxAS6ytT4#pdfviewer>

**Vinidex Pty Ltd Awarded \$150,000 for Project on Residual Polyvinyl chloride from construction and demolition and commercial and industrial waste streams which will be collected and processed for use in the production of plastic pipes and fittings - closing the loop on finite resources**

<https://www.epa.nsw.gov.au/working-together/grants/business-recycling/circulate-grant>

### Simulation Study of Fatigue Lifetime in PE100 Pipes

<http://www.iieta.org/download/file/23105>

**PIPE STIFFNESS AND DEFLECTION TESTING OF COILABLE HDPE CONDUIT AS RELATED TO BURIAL DEPTH**

<https://plasticpipe.org/pdf/tr-47-pipe-stiffness-burial-depth.pdf>

**Investigating Peak Stresses in Fitting and Repair Patches of Buried Polyethylene Gas Pipes**

<https://link.springer.com/article/10.1007%2Fs11709-019-0587-6>

**Multi-Angle Phased Array Ultrasonic Line-Scan Method for Steel Reinforced Polyethylene Electro-fusion Welded Joint**

<https://iopscience.iop.org/article/10.1088/1757-899X/677/2/022049/pdf>

**US EPA Rule Could Mean More Lead Water Pipe Replacement**

<https://www.eppm.com/materials/us-epa-rule-could-mean-more-lead-water-pipe-replacement/>

**Downer Using Innovative HDPE Pipe methods in Tauranga**

<https://www.trenchless-australasia.com/2020/01/07/downer-using-innovative-methods-in-tauranga-2/>

**Dow Produces New HDPE Pipe Resin**

<https://www.dow.com/en-us/pdp.dow-dgdb-2480-nt-high-density-polyethylene-resin.92909z.html>

**Are You at Risk of Burst Pipes? Explore the Types of Piping**

<https://www.watermasterplumbing.com.au/risk-burst-pipes-explore-types-piping-part-2/>

**PPI Offers HDPE Resources to Deal with Lead**

<https://www.aspe.org/pipeline/ppi-offers-hdpe-resources-to-deal-with-lead/>

**Engineer's Liability: RCP vs. Plastic**

<https://precast.org/engineers-liability-rcp-vs-plastic/>

**Mechanical Behavior Analysis of Buried Polyethylene Pipe Under Land Subsidence**

<https://www.sciencedirect.com/science/article/abs/pii/S1350630719310957>

**Plastics Pipe Institute names David Fink President and Executive Director**

<https://www.plasticstoday.com/extrusion-pipe-profile/plastics-pipe-institute-names-david-fink-president-and-executive-director/97091701662167>

**Plastics Pipe Institute Names New President**

<https://trenchlesstechnology.com/plastics-pipe-institute-names-new-president/>

**Measurement of Acoustic Basic Parameters of Polyethylene Pipe**

<https://iopscience.iop.org/article/10.1088/1757-899X/677/2/022050/meta>

**Numerical Modeling of Stress Corrosion Cracking of Polymer Pipes**

<https://www.sciencedirect.com/science/article/am/pii/S0013794416301564>

**PVC and HDPE NORTH WEST SYDNEY ASSET RELOCATION**

<https://mk0ueacomauuboih8ydy.kinstacdn.com/wp-content/uploads/2018/08/NORTH-WEST-SYDNEY-ASSET-RELOCATION.pdf>

**Photos: Inside the Construction of a Once-in-a-Career Pipeline**

<https://www.bizjournals.com/dallas/news/2020/01/13/photos-thompson-pipe-group.html>

**New Joint Venture Links Egypt with 3 UAE Businesses to Found New Pipe Plant**

<https://menafn.com/1099544513/New-joint-venture-links-Egypt-with-3-UAE-businesses-to-found-pipe-plant>

## **Egypt Inks Deal with Three UAE Companies to Set Up Pipe Plant**

[https://www.zawya.com/mena/en/business/story/Egypt\\_inks\\_deal\\_with\\_three\\_UAE\\_companies\\_to\\_set\\_up\\_pipe\\_plant-SNG\\_164374711/](https://www.zawya.com/mena/en/business/story/Egypt_inks_deal_with_three_UAE_companies_to_set_up_pipe_plant-SNG_164374711/)

## **Australian Plastic Pipe Testing Laboratory**

ExcelPlas Laboratories provides a comprehensive plastic pipe joint testing service and is equipped with a state of the art laboratory to test a range of polymer materials including polyethylene and polypropylene. ExcelPlas can carry out testing on plastic tube and pipe ranging in wall thickness from 3 mm to 80 mm. ExcelPlas Laboratories provide a comprehensive service to Industrial & commercial companies, environmental consultants, Government bodies and local Authority customers throughout Australia & NZ. All testing is carried and out in accordance with ISO & ASTM methods and is fully accredited to ISO 17025 by NATA.

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

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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.

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<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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