

## June 2021 Vol. 2

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

#### *Global News on Plastic Piping and Fittings*

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NEWSMAKERS: \* Aliaxis \* ASTM \* Cimbria Capital \* Corzan \* CPVC \* Electrofusion \* ExcelPlas \* Failure Analysis \* GF Piping \* IPEX \* QENOS \* PE100 \* PERT \* Plasson \* PPN \* PolyPipe Ltd. \* Rehau \* Reliance \* RWC \* SCG \* Shell \* TUBI Group \* Uponor

#### INDUSTRY NEWS

##### **Australia's Qenos to Shut Petrochem Units**

<https://www.argusmedia.com/en/news/2216354-australias-qenos-to-shut-petchem-units>

##### **Top Quality, Traceable Welds are Crucial to Ensuring High Performing HDPE Pipelines**

[https://www.engineeringnews.co.za/article/top-quality-traceable-welds-are-crucial-to-ensuring-high-performing-pipelines-2021-06-07/rep\\_id:4136](https://www.engineeringnews.co.za/article/top-quality-traceable-welds-are-crucial-to-ensuring-high-performing-pipelines-2021-06-07/rep_id:4136)

##### **Aliaxis and Private Equity Owner Cimbria Capital to Accelerate Big Data Analytics of Water Pipe Systems**

<https://www.prnewswire.com/news-releases/corporate-venture-investor-joins-cimbria-capital-to-accelerate-apx10-301310578.html>



**Interview with Tubi Group About Continuous Extrusion of HDPE Pipes In the Field With Elimination of 90% of Fusion Welds**

<https://irrigationleadermagazine.com/wes-long-bringing-hdpe-on-site-with-tubi-group/>

**Shell Presents Profiles of its In-House Plastic Pipe Expertise**

<https://www.shell.us/business-customers/shell-polymers/pipe-extrusion.html>

**Corzan Publish Technical Brochure on Chemical Resistance for CPVC Pipe and Fittings [PDF]**

[https://f.hubspotusercontent30.net/hubfs/4298533/Corzan\\_Industrial/Guides\\_and\\_Resources/en-us/en-us-COR-Chemical-Compatibility-WP-PDF\\_V2.pdf](https://f.hubspotusercontent30.net/hubfs/4298533/Corzan_Industrial/Guides_and_Resources/en-us/en-us-COR-Chemical-Compatibility-WP-PDF_V2.pdf)

**PolyPipe Limited (UK) Patents New Poly Pipe Connection Method**

<https://www.freepatentsonline.com/WO2021111130A1.pdf>

**IPEX Patent New Push Fitting for Plastic Pipes**

<https://www.freepatentsonline.com/WO2021068055A1.pdf>

**Today – Webinar on Minimum Performance Requirements of HDPE Pressure Pipes (Register Now)**

<https://alkadyne.com.au/register-your-interest-for-the-upcoming-pipe-webinar-series/>

**Plasson Australia Receives Approval for Electrofusion, Compression Joint and Pushfittings for HDPE Pipe**

<https://www.wsaa.asn.au/appraisal/plasson-australia-pty-ltd-electrofusion-compression-joint-and-pushfit-fittings-pe-pipe>

**Celebrating 50 Years of Swiss Quality and Innovation at GF Piping Systems' Seewis Factory**

<https://news.cision.com/georg-fischer-piping-systems-ltd/r/celebrating-50---years-of-swiss-quality-and-innovation-at-gf-piping-systems--seewis-factory.c3364517>



## **ASTM Releases New Standard Specification for Standard Specification for Polyethylene of Raised Temperature/Aluminium/Polyethylene of Raised Temperature (PE-RT/AL/PE-RT) Composite Pressure Pipe**

<https://www.astm.org/DATABASE.CART/HISTORICAL/F3506-21.htm>

## **POLY PIPE FAILURE**

### **Plastic Pipe Failure Analysis**

HDPE PIPE, PVC PIPE, PP-R PIPE, HOBAS PIPE AND SPOOLABLE COMPOSITE PIPE

If you are looking for an expert witness for your case involving plastic pipe failure analysis, then you rely on the team at ExcelPlas Polymer Consultants

<https://www.excelplas.com/wp-content/uploads/2020/01/Excelplas-A4-Brochure-4pp-Plastic-Pipe-Testing-NTs.pdf>

## **GRP PIPES**

### **The Influence of Acidic Soil and the Environment for Glass-Reinforced Plastic (GRP) Composite Material Used for Ground Water Transport Pipes**

<https://www.mdpi.com/1996-1944/14/12/3160/pdf>

### **Investigations of the Effect of Moisture and Impurities on the Long-Term Creep Behaviour of Polymer Composite Pipes**

<https://www.x-mol.com/paperRedirect/1402391750406291456>

## **ENVIRONMENT**

### **Twenty Polymer Firms Produce 55% of World's Plastic Waste, Report Reveals**

"Plastic pollution is one of the greatest and most critical threats facing our planet," said Dr Andrew Forrest AO, chairman of the Minderoo Foundation

<https://www.theguardian.com/environment/2021/may/18/twenty-firms-produce-55-of-worlds-plastic-waste-report-reveals>



## **Polymer Resin Producers Invest Billions in New Recycling Technology**

<https://waste-management-world.com/a/european-plastics-manufacturers-invest-billions-of-euros-in-chemical-recycling>

## **BRAND MARKETING**

### **How to Get Noticed by More Than 40,000 People in the Poly Pipe Space Across the Globe**

PPN we reaches over 40,000 people each month and this high level of audience engagement comes from years of creating content that matters to the plastic pipe industry.

We provide the industry's most reliable and current information, and have the trust and attention of the leaders and decision makers.

Not only can we help you get in front of our highly engaged audience, but we also have a number of channels you can use to target your message – as well as the subject matter experts to put it all together.

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

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### **ExcelPlas Labs 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/>

### **ExcelPlas Strain Hardening Test (SHT) for HDPE Pipes**

The SHT in accordance with ISO 18488 is a relatively new, but excellent way to obtain a rapid indication of the Stress Crack Growth (SCG) resistance of your piping material. This tensile test performed at 80°C has become in just a few years the new standard for Batch Release Testing (BRT). And not without reason. The test requires only a very small amount of material, the results are very reliable with a very low inter-laboratory scatter and the results are available



within a few days, regardless of the PE grade. The SHT is usually performed on resin material but it can also be performed on samples taken directly from pipes or sheets. As accredited lab, EXCELPLAS is happy to discuss the possibilities with you, whether it is for BRT, benchmarking, quality control of your (high performing) PE grade or for polymer compliance/ validation.

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

### **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/>

### **Australia's 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 20mm to 1200mm. ExcelPlas Laboratories provide a comprehensive service to Industrial & commercial companies, environmental consultants, Government bodies and local Authority customers throughout Australia and Asia.

All testing is carried and out in accordance with ASTM, ISO & WIS methods and is fully accredited to ISO 17025 by NATA.

- Butt Fusion Weld Testing
- Weld Testing
- Testing of Electro-fusion Welds
- Tear on saddle joints
- Crush De-cohesion of Electro-fusion welds
- Polymer & Plastics Identification
- Chemical & Thermal Testing
- Site Audits

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

### **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/>

### **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 Parallel-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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