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

Keep Up-to-Date During Corona Isolation with PPN

NEWSMAKERS: * Aliaxis * Bechtel * COUTA * Geberit * ExcelPlas * Iplex * QENOS * PEX * Plasson * PPN * Reece * Uponor * VINIDEX

INDUSTRY NEWS

Plastic Piping Company Georg Fischer Ranks 9th in Wall Street Journal Top 100 List
<https://www.news-star.com/story/news/2020/10/14/georg-fischer-ranks-9-wall-street-journal-top-100-list/3658650001/>

Plasson Exploring the Benefits of HDPE Pipe as the Industry Evolves (Special Feature)
Iris Jancik, Vice President of Business Development and Sales at Plasson USA Explains the Benefits of New HDPE Pipe
<https://www.estormwater.com/pipe-hdpe/pipe-progression>

Geberit says Material Selection is Critical When Designing a Building's Supply Piping System (Special Feature)
Antony Corbett, Product Manager for Supply Piping Systems at Geberit, takes a look at the challenges facing building services engineers during the material selection process. Antony examines why multi-layered piping is proving to be a popular choice for the supply of heating

and potable water.

https://modbs.co.uk/news/fullstory.php/aid/19409/Multiple_choices_in_a_material_world.html

PPN Offering Poly Pipes Market Intelligence Reports Using Augmented Analytics (NEW)

Report rich with competitor and customer data on your specific products and/or services ?

<https://www.excelplas.com/contact-us/>

Uponor to Publishes January-September 2020 Interim Report on 28 October 2020

<https://www.globenewswire.com/news-release/2020/10/19/2110155/0/en/Uponor-publishes-January-September-2020-interim-report-on-28-October-2020.html>

Uponor Study finds Healthy Buildings not Achievable Without Industry-Wide Change

James Griffiths, Project Development Director at Uponor, said: “Uponor has a lot of experience supplying water systems for high-rise residential facilities

<https://www.showhouse.co.uk/news/study-healthy-buildings-not-achievable-without-industry-wide-change/>

Bechtel Names HDPE Pipe Specialist John Minichiello as New Technical Fellow

John Minichiello is a technical leader for the Plant Design & Piping Engineering group at Bechtel's Nuclear, Security and Environmental business unit

John has been leading development of complete rules for using high-density polyethylene material for buried piping

https://www.thecentralvirginian.com/news/state/bechtel-names-new-technical-fellows/article_3eb3e5ff-f358-5de9-95fa-1ef44fa180af.html

Reece Plumbing Pre-Commits to Large Warehouse in and Owned by Melbourne Airport

<http://cloud.excelplas.com/s/IOmzpo45WQYsksH#pdfviewer?>

<https://www.realestatesource.com.au/reece-pre-commits-to-warehouse-in-and-owned-by-melbourne-airport/>

Reece (ASX:REH) Shares are Streaming Higher – is the Plumbing Powerhouse a Buy?

<https://www.raskmedia.com.au/2020/09/23/reece-asxreh-shares-are-streaming-higher-is-the-plumbing-powerhouse-a-buy/>

NEW PATENTS

Qenos Patents PE100 Nanocomposites for Pressure Pipe Applications

<https://www.freepatentsonline.com/10800907.pdf>

PRESENTATIONS

SafeGuard System for Hydrostatic Testing of PEX Pressure Pipes

Presenter: Gavin Shaw from The Couta Group

<https://www.youtube.com/watch?v=KUjlxddvHV0&feature=youtu.be>

FAILURE ANALYSIS

Polymer Materials Aspects Associated with the Addition of Hydrogen into an Existing Natural Gas Distribution Network

The test programme looked at the assessment of possible hydrogen absorption/desorption on polyethylene pipes and fittings and its effect on electrofusion jointing.

However the polyethylene pipework squeeze-off and electrofusion welding were not affected by hydrogen.

<https://www.sciencedirect.com/science/article/abs/pii/S0360319920334819>

Failure Analysis and Design of Grouted Fibre-Composite Repair System for Corroded Steel Pipes

<https://www.sciencedirect.com/science/article/abs/pii/S135063072031503X>

Performance of Nano-Filler Reinforced Composite Overwrap System to Repair Damaged Pipelines Subjected to Quasi-static and Impact Loading

<https://link.springer.com/article/10.1007/s11668-020-01013-6>

JOBS

Iplex Pipelines is seeking a Sustainability Manager to support its business lead and execute on its sustainability strategic priority

<https://www.pipeliner.com.au/jobs/sustainability-manager/>

Aliaxis - Vinidex Seeking Senior Customer Service Officer

<https://www.seek.com.au/job/50768015?type=standout>

Seeking Plastic Fabricator / Polywelder for PE Pipes

<https://www.seek.com.au/job/50724473?type=standard>

PIPE TESTING

Assessing Remaining Service Life of Polyolefin Pipes (HDPE, PEX, PP-R, PB) (How Long Will My Pipes Last?)

ExcelPlas has developed Protocol for Determining the Remaining Service Life of In-Service HDPE Pipelines

The 5 step protocol is based on lab testing to measure the following:

1. The oxidative induction time (OIT) profiling to assess whether or not oxidation protection is still afforded by the additives.
2. Measure the carbonyl index (CI) to assess extent of any polymer oxidation that has occurred.
3. Determine the critical CI at which oxidative stress cracking (OSC) is initiated.
4. Measure oxidative stress cracking resistance (OSCR) to determine the time until OSC is initiated.
5. Measure the depth of micro cracking on 180 degree bent coupons by Scanning Electron Microscopy

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

ExcelPlas Labs for Polymer Pipe Testing Times

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

PPN Now Reaching Over 10,000 Readers in the Plastic Pipe Industry Worldwide (Free Subscriptions)

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

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 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

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

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