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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 in Real-Time

NEWSMAKERS: * Aliaxis * Blaumar Capital * Borealis * Caldervale Technology * Chlorine Dioxide * ExcelPlas * Failure Analysis * GF Piping * McElroy * Microplastics * Nanoplastics * Polybutylene Pipe Failures * PPN * PP-R Pipe Failures * ProPEX™ * Sage Water * Uponor

INDUSTRY NEWS

HDPE Pipe Main Failures in USA Caused by Chlorine Dioxide (Breaking News)
https://www.journal-news.com/news/hamiltons-tari-court-residents-deal-with-frequent-water-main-breaks-city-says-a-fix-is-coming-soon/6EVQ4CM3FJD3FEIZWSGHZ2WOVA/

Blaumar Capital acquires Caldervale Technology and Fusion Equipment to Create a Solution Platform for the Installation of HDPE Pipes for Water and Gas
https://www.fusionequipment.co.uk/blaumar-capital-acquires-caldervale-technology-and-fusion-equipment/

Buyer Beware: Imitation Uponor ProPEX® Fittings Can Negatively Impact Your PEX Installs
https://plumbingperspective.com/buyer-beware-generic-f1960-expansion-fittings-can-negatively-

impact-your-pex-installs

GF Piping Debuts New Safe Tool for Cutting Plastic Pipes of All Diameters
https://www.gfps.com/content/dam/gfps/com/brochures-and-flyers/en/GFPS-00078-BROCHURE-PECUT-1200-EN.PDF

New Type of Crosslinked PE for Pipes known as Polyethylene Vitrimers
https://onlinelibrary.wiley.com/doi/full/10.1002/pen.26178

13.5km of Aliaxis GPS PE Blue Installed for Pipeline Renewal Programme
https://www.watermagazine.co.uk/2022/10/18/13-5km-of-aliaxis-gps-pe-blue-installed-for-pipeline-renewal-programme/

McKinsey Report Shows Plastic Pipes a Better Choice for Greenhouse Gas Emissions
https://www.pipeliner.com.au/mckinsey-report-shows-plastic-pipes-a-better-choice-for-greenhouse-gas-emissions/

Borealis' New Super Low Sag (SLS) Black Polyethylene PE100-RC Pressure Pipe Material will be Used in a Major Pipeline Project in Spain
https://news.europawire.eu/borealis-new-super-low-sag-sls-black-polyethylene-pe100-rc-pressure-pipe-material-will-be-used-in-a-major-pipeline-project-in-spain/eu-press-release/2022/09/14/18/16/17/102906/

Pipeline Safety Monitoring Technology Based on FBG-ROTDR Joint System and its Case Study of Urban Drainage Pipeline Monitoring
https://www.sciencedirect.com/science/article/abs/pii/S1068520022002279

McElroy Appoints New UK International Business Manager
https://www.watermagazine.co.uk/2022/10/19/mcelroy-appoints-new-uk-international-business-manager/

Bhavana Bindra Appointed New MD of Rehau South Asia
https://www.plyreporter.com/article/92217/bhavana-bindra-appointed-new-md-of-rehau-south-asia

Westlake Downgraded to Hold at Deutsche Bank on Slowing Demand for Plastics Pipes
https://seekingalpha.com/news/3891795-westlake-downgraded-to-hold-at-deutsche-bank-on-slowing-demand-for-plastics

Interview with Aaron Stotko, Director, Segment Marketing Uponor North America (Video)
https://www.youtube.com/watch?v=AtwjQdEUvbc

Uponor Defective Brass Pipe Fitting Class Action Settlement - Ends 10/22/2022
There is a Settlement in a class action lawsuit filed against Uponor and certain developers/builders, subcontractors, and distributors/suppliers. The lawsuit claims that Uponor's high zinc content brass plumbing fittings and components are defective and prematurely corrode (or break down).
The defendants have agreed to pay a maximum of $21 million to settle the nationwide class action lawsuit, and a minimum of $7 million to settle the Nevada class action lawsuit. This money will be paid into a settlement fund that will be used to reimburse eligible Class Members for repairs or replacement costs relating to leaks or flow issues, and related property damage. The amount each Class Member will receive depends on the type of claim they have. The defendants have agreed to pay a maximum of $60,000 per claim for property damage claimants in the nationwide lawsuit settlement, and up to $150,000 per claim in the Nevada settlement. Uponor defective brass pipe fitting class action settlement. High-zinc-content brass is primarily made of copper and contains at least 30 percent zinc. The Uponor yellow brass fittings named in the class action lawsuits were made of UNS C36000, C3770 or C35330 brass or similar copper alloys. They were used as components of the Uponor/Wirsbo PEX system.
https://brassfittingsclass.com/nationwide/Portals/0/Documents/Claim Form v2.pdf

A Bayesian Pipe Failure Prediction for Optimizing Pipe Renewal Time in Water Distribution Networks
https://www.mdpi.com/2412-3811/7/10/136/pdf?version=1665664712

MICROPLASTICS

New Research by Australian Scientists Shows Global Abundance of Small Microplastics is Grossly Underestimated
https://www.newcastle.edu.au/newsroom/featured/new-research-shows-global-abundance-of-small-microplastics-is-grossly-underestimated

Plastic Leaching into Farmer's Fields at Alarming Rate: New UN Report
https://www.unep.org/news-and-stories/story/plastic-leaching-farmers-fields-alarming-rate-new-report

Plastics are Piling up in Soil Across the World Warns UN Environment Agency
https://news.un.org/en/story/2022/10/1129597

Micro- and Nanoplastic Contamination in Livestock Production: Entry Pathways, Potential Effects and Analytical Challenges
https://www.sciencedirect.com/science/article/abs/pii/S0048969722043327

FAILURE ANALYSIS

HDPE PIPE JOINT FAILURE EXPERTS
The failure of electrofusion or butt fusion joints in polyethylene gas pipework can be due to several factors including incorrect alignment, contamination, incorrect temperature or the duration of joint fusion.
If a joint failure occurs, investigations are important to help identify modifications to procedures or training that can help you minimise the occurrence of future failure. This is where we can help.
We provide a detailed PE joint failure investigation service which typically include:

- Digital inspection of the received sample, including dimension measurements of sizes and ovality
- Segmenting the joint for visual and microscopic investigation
- Elemental analysis of any contamination found in the joint
- Peel decohesion testing

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

Plastic Pipeline Expert Witness
If you require expert witness or legal consulting assistance in pipeline failure analysis, plastic pipeline joining methods, plastic piping welding, or associated technical areas please contact us.
https://www.excelplas.com/contact-us/

ExcelPlas Investigating Poly Pipe Failures
Through failure analysis & forensic chemistry, we help clients improve product performance, increase profits, & resolve product liability claims with plastic pipes and fittings.
We are dedicated to unmatched excellence in failure analysis, investigative chemistry, material testing, and expert witnessing for plastics, polymers and composites.
With over 25 years of investigative experience, the staff at ExcelPlas are uniquely positioned to help clients resolve the most challenging performance and processing issues related to materials and finished pipes and fittings.
https://www.excelplas.com/contact-us/

MORE POLY PIPE NEWS

PPN the Digital News Platform for Communicating to the Global Plastic Pipe Industry
Send Us Your News!!! PPN Publishes weekly.
https://www.youtube.com/watch?v=eUKxWbOZY10

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/

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 3mm 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 buttweld 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.

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