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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 * Belgium * Class Action * ExcelPlas * Failure Analysis * Finland * Fletcher Building * IPEX * Iplex Pipelines * Microplastics * PB-1 Pipe Failures * Polybutylene Pipe Failures * Polyethylene Pipes * PVC Pipes * UPONOR * Vinyl Institute

BREAKING NEWS

USA TODAY: New Report Warns Against Using PVC Pipes in Drinking Water Systems
https://www.usatoday.com/story/news/investigations/2023/04/18/new-report-warns-against-using-pvc-pipes-drinking-water-systems/11688737002/

New Report Warns About Human Health Risks from PVC pipes Used in Drinking Water Systems
https://www.msn.com/en-us/health/other/new-report-warns-about-human-health-risks-from-pvc-pipes-used-in-drinking-water-systems/ar-AA1a1NnU?li=BBnba9O

Safety of PVC Water Pipes Questioned in New Report
https://cloud.excelplas.com/s/AJFmAo5N6jTyifW

Plastic Pipes Take Centre Stage in World News
https://cloud.excelplas.com/s/FHoBJP8FLvVVyCE

Burst Polybutylene Pipes Two Years in: 1200 Perth Homeowners Make Complaints
https://cloud.excelplas.com/s/bBWe1OP90pLCsEk

Fletcher Sets Aside $15m for Faulty Pipe Compensation
https://www.afr.com/companies/infrastructure/fletcher-sets-aside-15m-for-faulty-pipe-compensation-20230417-p5d0yc

Update on the Iplex Pro-fit Pipe Issue
https://www.masterplumbers.asn.au/news/article/17042023-161/update-on-the-iplex-pro-fit-pipe-issue.aspx

INDUSTRY NEWS

Environmental Advocates Warn Against Using PVC in Drinking Water Pipes
https://news.yahoo.com/environmental-advocates-warn-against-using-201441091.html

The Vinyl Institute Responds 'Beyond Plastics Denies 60 Years of Science-based Evidence on PVC Pipe Safety'
https://www.vinylinfo.org/pressroom/beyond-plastics-denies-60-years-of-science-based-evidence-on-pvc/

Aging of Drinking Water Transmission Pipes During Long-Term Operation as a Potential Source of Nano- and Microplastics
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4421464

Leaching Characteristics and Potential Risk of Heavy Metals from Drip Irrigation Pipes and Mulch Substrate in Agricultural Ecosystems

https://www.sciencedirect.com/science/article/abs/pii/S0048969723021927

Analysis of the Harmfulness of the Water Hammer Phenomenon in HDPE Pipes
https://www.sciencedirect.com/science/article/abs/pii/S0308016123000807

Terahertz Identification of Inclusion Defects in Fusion Joints of Polyethylene Pipes
https://www.spiedigitallibrary.org/conference-proceedings-of-spie/12565/125650R/Terahertz-identification-of-inclusion-defects-in-hot-melt-joint-of/10.1117/12.2661653.short?SSO=1

Recycling Over One Thousand Tonnes of HDPE Pipes at Highland Valley Copper Operations
https://www.teck.com/news/stories/2023/recycling-over-one-thousand-tonnes-of-hdpe-pipes-at-highland-valley-copper-operations

PLASTIC PIPE CONSULTANTS

Plastic Pipe Consulting Experts and Services
If you need a team of pipe plastic experts, then ExcelPlas Consulting is the obvious choice - our size is our strength in a market dominated by single consultants.
We provide services on everything from material selection, product testing, processing to failure analysis
https://www.excelplas.com/contact-us/

PIPE FAILURE ANALYSIS

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.

Any news requests should be sent to john@excelplas.com
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