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Author : PPN

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

Global News on Plastic Piping and Fittings

NEWSMAKERS: * Butt Fusion * Failure Analysis * Electrofusion * ExcelPlas * Geberit * GFR-HDPE * ISCO * NDT * PE100 * PE-RT * PEX * PPN * PP-R * Rehau * TOFD * Uponor * Victaulic * Zetec

INDUSTRY NEWS

USA Pipe Manufacturer ISCO Inks Deal in Africa

<https://pmnewsnigeria.com/2021/07/06/nigerian-firm-signs-sales-agreement-with-us-based-isco/>

Zetec Present Ultrasonic Inspection Solution for HDPE Butt-Fusion Joints

<https://materialsperformance.com/news/2021/07/ultrasonic-inspection-solution-for-hdpe-butt-fusion-joints>

<https://register.gotowebinar.com/register/7303905524892510221?source=SP>

TOFD Inspection of HDPE Piping to Assure Quality of Fusion Welding

<https://www.zetec.com/blog/tofd-inspection-of-hdpe-piping-for-petrochemical-use/>

Geberit Australia Showcase their Geberit ESG 3 Pipe Welder Used for HDPE Pipes and Electrofusion Couplings

<https://www.youtube.com/watch?v=hc0KdVbAGco>

Uponor Recommendations on PEX Pipe Supports (Hangers) for Large-Diameter Commercial PEX Pipe

<https://www.youtube.com/watch?v=hvF9NEk-aJs>

ExcelPlas Pipe Testing Labs Report Greater Incidence of Plastic Pipe Failures with PEX, PP-R and PB Pipes/Fittings

EP Labs has worked on 55 cases of plastic pipe forensic failure analysis for the first 7 months of 2021

<https://www.excelplas.com/about-us/our-company/>

Thermal Effects In Piping Systems and Potential for Failure

<https://www.edtengineers.com/blog-post/thermal-effects-piping-systems>

Rehau Seeking Business Development Manager for PEXa-based Water Service Pipes

<https://www.linkedin.com/jobs/view/business-development-manager-municipex-at-rehau-2647395356>

Victaulic Patent New Pipe Adapter Coupling

<https://www.freepatentsonline.com/11060639.pdf>

China Develops Automatic Identification Method for Electrofusion Welding Defects

<https://cloud.excelplas.com/s/wizSh3hMC3794JZ#pdfviewer>

New 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>

NEW PUBLISHED RESEARCH

Numerical Simulation of the Severity of Surface Defects in HDPE Pipes

<https://www.asjp.cerist.dz/en/downArticle/293/5/2/158322>

Influence Analysis of the Controllable Factors on the Objective Functions for Optimizing the Welding of PE100 Pipelines for Natural Gas Distribution

<https://www.scientific.net/AMR.1164.25>

Cooling and Annealing of Plastic Pipe in Commercial Pipe Extrusion

<https://www.sciencedirect.com/science/article/abs/pii/S2451904921001323#>

Hydraulic Transients in HDPE Pipeline Systems with Sudden Cross-Section Changes

<https://www.researchgate.net/profile/Kamil-Urbanowicz/publication/353034517-Hydraulic-Transients-in-Viscoelastic-Pipeline-System-with-Sudden-Cross-Section-Changes>

Large-Scale Model of Lateral Pressure on a Buried HDPE Pipeline in Medium Dense Sand

<https://www.mdpi.com/2076-3417/11/12/5554/pdf>

Study on Method of Onshore Launching System Design for Over-length Large Diameter HDPE Pipe

<https://iopscience.iop.org/article/10.1088/1755-1315/768/1/012160/pdf>

Production of Off-Axial Glass Fibre-Reinforced HDPE Pipes Fabricated via Rotating Co-extrusion

<https://cloud.excelplas.com/s/WVIYpjht4IqRDtS#pdfviewer>

The Effect of Hydrothermal Aging on the Low-Velocity Impact Behaviour of Multi-Walled Carbon Nanotubes Reinforced Carbon Fiber/Epoxy Composite Pipes

<https://link.springer.com/article/10.1007/s10443-021-09923-w>

Implementation of Lean Six Sigma in an Effort to Reduce the Failure of the PVC Pipe Quality Load Test

<https://press.umsida.ac.id/index.php/PELS/article/download/933/612/>

OTHER NEWS

Singapore Publishes New Standard Guidance for Plastic Pipes and Fittings

<https://www.pub.gov.sg/Documents/PUB-Stipulated-Standards-Requirements-for-Water-Fittings.pdf>

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.youtube.com/watch?v=eUKxWbOZY10>

Do You Have Any Poly Pipe News? – Get in Touch

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

COMMUNICATE YOUR BRAND TO A GLOBAL AUDIENCE WITH JUST ONE CLICK

PPN - Your Global Source of Plastic Piping News and Technology

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

MORE NEWS

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<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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