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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: * Allianz * Borealis * Clover * ExcelPlas * Flowtite * Hobas * LyondellBasell * Megapipes * PPI * PPN * Rehau * Superlit

INDUSTRY NEWS

Allianz Takes Majority Stake in HDPE Gas Distribution Network for Future Hydrogen Distribution

<https://realassets.ipe.com/news/allianz-takes-majority-stake-in-portuguese-gas-distribution-network/10048628.article>

HOBAS GRP Pipe Expansion Project Nears Completion

<https://www.waterworld.com/technologies/pipes/press-release/14186449/hobas-expansion-project-nears-completion>

Cause of Benzene Water Supply Contamination by HDPE Pipes Challenged

<https://news.thomasnet.com/companystory/cause-of-benzene-water-supply-contamination-challenged-40040448>

Plastics Pipe Institute Investigates Benzene in Drinking Water (Declassified)

<https://plasticpipe.org/pdf/ppi-tr-51-2020.pdf>

Clover Pipelines Pty Ltd Receives WSAA Approval for Clover/Rohr Polyethylene (PE) Pressure Pipe

This Appraisal is for a range of Series 1 PE100 plain wall pipes manufactured in sizes from DN 16 to DN 800 with pressure classifications from PN 4 to PN 25 in accordance with AS/NZS 4130:2018 – Polyethylene (PE) pipes for pressure applications.

<https://www.wsaa.asn.au/appraisal/clover-pipelines-pty-ltd-cloverrohr-polyethylene-pe-pressure-pipe>

Megapipes Bring Sustainable Sanitation to Kenya

<https://www.africanreview.com/manufacturing/water-a-environment/megapipes-solutions-brings-sustainable-sanitation-to-kenya>

India's First PE112 Pipe Grade for Potable Water Distribution Developed by HPL's R&D Centre

<https://www.haldiapetrochemicals.com/company>

PEX PIPES

REHAU RAUTITAN PE-Xa plumbing System is Now Approved for use as a Fire Sprinkler Piping System in Australia

<https://www.rehau.com/au-en/fire-sprinkler-piping-system>

Get Your PEX Pipes Tested

Some PEX pipe manufacturers use cost-cutting processes which lead to pipes that aren't uniform in composition and are defective. Defective PEX pipes will not last 50+ years as advertised and quickly degrade and become brittle when exposed to hot chlorinated water. These pipes are destined to fail so get your PEX pipes tested.

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

GRP PIPES

Superlit GRP Wins Contract for 2.6 km of the SUPERLIT GRP Pipes (DN 2700mm and DN 2400mm) for Norway Hydroelectric Power Plant

<https://www.superlit.com/en/superlit-grp-pipes-have-been-chosen-to-give-services-to-stardalen-hydroelectrical-power-plant-in-norway/>

Recycling of Superlit™ GRP Pipe Waste

Use of GRP Pipe Waste Powder as a Filler Replacement in Hot-Mix Asphalt

<https://www.mdpi.com/1996-1944/13/20/4630/pdf>

GRP Piping Failures (A Review)

<http://cloud.excelplas.com/s/gJx4QsBHIBYMcSD#pdfviewer?>

Resilient Stormwater Management in UK with Flowtite GRP Biaxial and Pressure Pipes

<https://www.amiblu.com/reference/resilient-stormwater-management-in-preston-uk/>

Facing the Water Scarcity Problem with GRP Pipes

<https://topfibra.eu/facing-the-water-scarcity-problem-with-grp-pipes/>

WEBINARS

Webinar: Polymeric Tapes for Pipeline Corrosion Protection: What are the differences of PVC and PE?

<https://www.youtube.com/watch?v=2YRgcpPBR1s>

FAILURE ANALYSIS

Analysing Causes of Poly Pipe Failure

If you want to assess the current condition and predict future conditions of these pipes, one key element is to know the important factors contributing to their failures – and how do those factors play out in the real world. Identifying risk factors for pipe failure such as temperature, cyclic pressure, copper ions, chlorine, free-radicals and other impact factors.

ExcelPlas polymer researchers investigate the most common factors in polymer pipe failure and cracking.

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

More Poly Pipe News

<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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