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Author : PPN

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

Keep Up-to-Date During Corona Isolation with PPN

NEWSMAKERS: * Borouge * Chevron Phillips * COSMO I&D * ExcelPlas * Fletcher Building * Geberit * Iplex * McElroy * PEX * PE100 * PIPA * Pipeconnex * PPN * PVC * Qenos * Rocla

INDUSTRY NEWS

PIPA Updates POP004 Specifications for Polyethylene Pipe and Fitting Compounds [PDF]

<https://pipa.com.au/wp-content/uploads/2021/01/POP004-Issue-23-January-2021.pdf>

QENOS Publish White Paper on Minimum Performance Requirements of HDPE Pressure Pipes [PDF]

https://alkadyne.com.au/wp-content/uploads/2020/12/209-qen-wp-hdpe-pressure-pipes_final.pdf

QENOS HDPE Pipe Resin Maker Hit by Altona Refinery Closure

“major manufacturers such as Qenos relied on products from the Altona refinery and would now likely have to source that material from China which is less reliable”

<https://cloud.excelplas.com/s/raTJ4kKl100Q1xt#pdfviewer>

Abu Dhabi to Finance Egyptian Polyethylene Pipe Extrusion Plant with Borouge

<https://www.meed.com/abu-dhabi-to-finance-egypt-polyethylene-plant>

Pipeline Operators Turn to Chevron Phillips High-Temperature PE Pipe for Demanding Applications

<https://www.hartenergy.com/industry-voice/industryvoice-pipeline-operators-turn-high-temperature-pe-pipe-demanding>

ANSI/AWWA C901 Update Heightens Standards for HDPE Water Service Pipes

<https://www.phcppros.com/articles/12880-ansiawwa-c901-update-heightens-standards-for-hdpe-water-service-pipes>

McElroy Release Acrobat™ Solution for Fusing PE Pipe in Tight Working Environments

<https://press.mcelroy.com/an-acrobat-solution-in-a-pe-world/>

New Polypropylene Pipe Materials Added to Canadian Municipal Construction Specifications

<https://www.waterworld.com/technologies/pipes/press-release/14197779/new-materials-added-to-canadian-master-municipal-construction-documents>

Iplex Parent Fletcher Building Announces FY21 Half Year Results

<https://fletcherbuilding.com/news/fletcher-building-announces-fy21-half-year-results/>

Korean PE Pipe Supplier COSMO I&D Launches New BF Fittings and EF Fittings

<https://www.webwire.com/ViewPressRel.asp?ald=270482>

Geberit Multi-Layer Piping: Meeting Modern Demands

https://modbs.co.uk/news/fullstory.php/aid/19501/Multi-layer_piping:_Meeting_modern_demands.html

Rocla Supplies 19km's of HDPE Pipes for Polokwane Waste Water Treatment Plant

<https://constructionreviewonline.com/corporate-news/rocla-supplies-19kms-of-hdpe-pipes-for-polokwane-waste-water-treatment-plant/>

GRP PIPES

GRP Pipe Consultant (Middle East UAE) - Muhammad Fayyaz

Muhammad Fayyaz has extensive experience in composite pipe materials, testing, manufacturing, QA/QC and R&D.

In addition he is well versed in HDPE, PVC, and other non-metallic pipes/product's manufacturing and testing standards.

He is expert with GRP Pipe testing equipment and been working (twice) as a Material testing Lab Manager, where we mainly tested for Quality Control and R&D for the following product:

- GRP/GRE Pipe/Fittings
- GRP Pipe QA/QC and R&D
- GRP Sewer manholes
- GRP Pultruded profile structural items
- GRP Pipe and Fittings Failure Analysis
- GRC/GRG Cladding testing

View Full Contact Details here:

<https://cloud.excelplas.com/s/Zbly9eKBa6LQkpu#pdfviewer>

UPCOMING WEBINARS

Installation of PVC Water and Sewer Piping Systems - Date: Wednesday, March 3, 2021

<https://www.uni-bell.org/Events/Webinar-Enrollment?WebinarId=37>

NEW RESEARCH

Influence of Pipe Materials on the Microbial Community in Unchlorinated Drinking Water and Biofilm

<https://www.sciencedirect.com/science/article/abs/pii/S0043135421001202>

JOBS

Pipeconnex Pty Ltd. (Dandenong) Seeks Extruder Operator to Manufacture HDPE Pipes

<https://www.seek.com.au/job/51585599?type=standard>

PIPE FAILURE INVESTIGATIONS

2020 – The Year of COVID-19 and Plastic Pipe Failures

It has been a busy 2020 with ExcelPlas working on the following failure analysis jobs:

- 11 PEX pipe failures
- 8 Polybutylene pipe failures
- 36 PP-R pipe failures
- 7 PVC pipe failures
- 5 HDPE pipe failures

Should you want to discuss a plastic pipe failure investigation please contact us at:

<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 NEWS

Get 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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