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

NEWSMAKERS: * Aliaxis * ExcelPlas * Fletcher Builder * Formosa Plastics * Georg Fischer * Iplex * McElroy * PIPA * Qenos * Rocla

Rocla Workers Strike for Better Pay

"There was a change in senior management where we were merged with another Fletcher Building company called **Iplex**, and they replaced all the Rocla ..."

<http://cloud.excelplas.com/index.php/s/ffz2UcS9Xa91U5d#pdfviewer>

The Importance of Using Pre-compounded Black PE100 Resins Across Asia

<https://www.pe100plus.com/PE-Pipes/news/pre-compounded-black-PE100-resins-i2208.html>

Formosa Plastics Corporation NEW PE100+ grade TAISOX 8001BL has successfully been tested and approved including the three main mechanical performance tests (CRS, SCR and RCP) and is now listed as PE100+ Quality Material for the Australian and Asian Region

<https://www.pe100plus.com/PE-Pipes/news/PE100-continues-to-expand-in-Asia-with-new-member-Formosa-i2206.html>

Polyethylene Pipeline Key to Keeping Areis Resources Tritton Copper Mine Supplied with Water

<https://www.nynganobserver.com.au/story/6496554/council-discusses-mine-pipeline-and-water-concerns/>

PIPA Update Industry Guidelines for POP004 POLYETHYLENE PIPE AND FITTINGS COMPOUNDS

<https://www.pipa.com.au/wp-content/uploads/2019/11/POP004.pdf>

McElroy Releases Groundbreaking DataLogger to Capture of HDPE Pipe Butt Welding Parameters

<https://www.mcelroy.com/en/fusion/datalogger.htm>

Australian Poly Solutions Specialises in HDPE Pipe Fusion Welding and Hydrostatic Testing Services with Knowhow and Experience you can rely on

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

RITMO: APP - SET & GO! PRO Butt Fusion for Pressure Pipe

<https://www.ritmo.it/en/butt-fusion-for-pressure-pipe/app-set-go-pro/>

Video: <https://youtu.be/YP4GmmBdufU>

PE100+ Continues to Expand in Asia with New Member Formosa

<https://www.pe100plus.com/PE-Pipes/news/PE100-continues-to-expand-in-Asia-with-new-member-Formosa-i2206.html>

Development of the World's First Electrofusion Connector for Polymer Lined Pipelines

<https://www.swagelining.com/swagelining-recognised-for-business-innovation-at-oguk-awards/>

Are PFAS an Issue for Permeation of Plastic Water Pipes?

<https://watersource.awa.asn.au/publications/technical-papers/are-pfas-an-issue-for-permeation-of-plastic-water-pipes/>

Failure of PVC Pipe

<https://www.conferenceco.com.au/ozpipe/PAPERS/ALCHIN.pdf>

Plastic Pipe Timeline Developed by Plastic Pipe Database Committee

<https://www.aga.org/contentassets/c139635bd829446eb292e2801b321e88/plastic-pipe-timeline-11-2019.pdf>

Failure Analysis of Ring Hoop Tension Test (RHTT) Specimen under Different Loading Conditions

<https://www.researchgate.net/publication/326533986-Failure-Analysis-of-Ring-Hoop-Tension-Test-RHTT-Specimen-under-Different-Loading-Conditions>

Effect of Soil Load on HDPE Pipes and its Influence on Lifetime

<https://www.degruyter.com/downloadpdf/j/scjme.2019.69.issue-3/scjme-2019-0036/scjme-2019-0036.pdf>

Evolution of Elastomeric Joints in Plastic Pipeline Systems and Use of Long Term Relaxation Testing to Predict Service Life"

<https://www.trelleborg.com/en/pipe-seals/news--and--events/2019--plastic--pipes--china>

Chlorine Dioxide Degradation Issues on Metal and Plastic Water Pipes Tested in Parallel in a Semi-Closed System [PDF]

<https://www.mdpi.com/1660-4601/16/22/4582/htm>

Relationship between Morphological Changes and Mechanical Properties in HDPE Films Exposed to a Chlorinated Environment

<https://www.sciencedirect.com/science/article/pii/S0141391019303556>

Mechanical Properties and Molecular Structures of Virgin and Recycled HDPE Polymers Used in Gravity Sewer Systems

<https://hal.archives-ouvertes.fr/hal-01725496/document>

CCG of PE100 and Life Prediction of PE Pipe With Axial Semi-Elliptical Crack

<https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2019/58974/V06AT06A035/1068657>

A Residual Lifetime Prediction Method of Aging Polyethylene Gas Pipes in Service

<https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2019/58974/V06AT06A007/1068615>

Ultrasonic Phased Array Inspection With Water Wedge for Butt Fusion Joints of Polyethylene Pipe

<https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2019/58974/V06AT06A030/1068671>

Development of Chinese Standard on Ultrasonic Inspection for Electrofusion Joint of Polyethylene Pipe

<https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2019/58929/V001T01A009/1068840>

Investigation on Mechanical Properties of Fiberglass Reinforced Flexible Pipes Under Bending

<https://asmedigitalcollection.asme.org/OMAE/proceedings-abstract/OMAE2019/58806/V05AT04A010/1067799>

Root Penetration of Polyvinyl Chloride (PVC) Stormwater and Sewer Pipes

<https://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=19355297>

Studies on the Effects of Bentonite (Nanoclay) on the Mechanical Properties of High-Density Polyethylene Pipes

https://www.scirp.org/html/5-2710758_96423.htm

Field Performance of Steel-Reinforced High-Density Polyethylene Pipes in Soil

<https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002187>

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

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<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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