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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: * Aliaxis * British Plastic Federation * Chevron Phillips * ExcelPlas * Exxon Mobil * LyondellBasell * McElroy * OCSiAl * PEX * PPN * Plasson * TUBI * VINIDEX

INDUSTRY NEWS

Exxon Mobil Cuts 1600 Jobs Across Europe (Breaking News)

<https://industryeurope.com/sectors/energy-utilities/exxonmobil-to-axe-1600-jobs-in-europe/>

China Initiates Anti-dumping Investigation into US-made PVC - US, Taiwan, Japan Import Sources

https://www.plasteurope.com/news/PVC_t246007/

100% Recycled Content Polyethylene Pressure Pipes Could Soon to be Reality

Upon certification, Chevron Phillips Chemical intends to market its new circular polyethylene range under the trade name Marlex® Anew™ Circular Polyethylene.

<https://www.hydrocarbonprocessing.com/news/2020/10/chevron-phillips-chemicals-new-success-in-advanced-recycling-technology>

LyondellBasell and Sasol form Integrated Polyethylene Joint Venture

<https://www.lyondellbasell.com/en/news-events/corporate--financial-news/lyondellbasell-and-sasol-form-integrated-polyethylene-joint-venture/>

McElroy New Datalogger Brings Efficiency and Added Value to HDPE Pipe Fusion

<https://press.mcelroy.com/mcelroy-datalogger-7-brings-added-value-efficiency-to-fti-fusion-operation/>

TUBI Publishes Annual Report

<https://hotcopper.com.au/documentembed?id=uOMxKKzFkiWRTLKhOROKAxjvSDYL4Qu/zBnww4V7+rFiGug=>

TUBI Presentation ON ON-SITE HDPE PIPE MANUFACTURE

<https://www.listcorp.com/asx/2be/tubi-limited/news/tubi-update-september-2020-2373437.html>

PPN Offering Poly Pipes Market Intelligence Reports Using Augmented Analytics (NEW)

Report rich with competitor and customer data on your specific products and/or services ?

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

FAILURE ANALYSIS

Classifying Formulations and Tracking Accelerated Aging of Crosslinked Polyethylene (PEX) Pipes by Using Infrared Spectra

<http://cloud.excelplas.com/s/CEuLo8mslJIFzbt#pdfviewer?>

Experimental and Simulation Investigation on Failure Mechanism of a Polyethylene Elbow Liner Used in an Oilfield Environment

<https://link.springer.com/article/10.1007/s11668-020-01030-5>

Permeation Damage of Polymer Liner in Oil and Gas Pipelines: A Review

<https://www.mdpi.com/2073-4360/12/10/2307/pdf>

Forensic Analysis of Oxidation Embrittlement in Failed HDPE Potable Water Pipes

Of particular emphasis is the study of premature polyethylene pipe failure in the presence of common water disinfectants such as chlorine (hypochlorite), chlorine dioxide and chloramines. Evaluation of PE100 RC (Resistant to Crack), PE100 DCR (Dioxide Chlorine Resistant), PE100 FLEX (High Flexibility) pipes in chlorinated oxidizing environments.

Expert Witness support for plastic pipe materials and poly pipe failures. We also support technical due diligence, design reviews, manufacturing faults and failure.

Underestimation of the importance of QC and QA processes is one of the major factors leading to internal and external poly pipe failure.

<https://www.excelplas.com/products-tested/polymer-testing/>

GRAPHENE

Smarter Pipes of the Future: OCSiAl Opens its First Graphene Nanotube R&D Centre in Europe

<https://ocsial.com/news/smarter-materials-and-cars-of-the-future-ocsial-opens-its-first-graphene-nanotube-r-and-d-center-in-europe/>

<http://www.jeccomposites.com/knowledge/international-composites-news/ocsial-opens-its-first-graphene-nanotube-rd-center-europe>

NEW RESEARCH

Mechanical, Thermal and Physico-Chemical Behaviour of Virgin and Hydrothermally Aged Polymeric Pipes

<https://journals.sagepub.com/doi/abs/10.1177/0892705720962167>

Effects of Cyclic Mechanical Loads and Thermal Ageing on District Heating Pipes

<https://www.sciencedirect.com/science/article/pii/S0141391020303153>

Effects of Ethylene-Octene Copolymer (POE) on the Brittle to Ductile Transition of

HDPE/POE Blends

<https://onlinelibrary.wiley.com/doi/abs/10.1002/pen.25532>

Scientists Warn Toxic Chromium Could Form in Drinking Water Pipes

<https://scitechdaily.com/scientist-warn-toxic-chromium-could-form-in-drinking-water-pipes/>

Maximizing The Benefits Of Plastic Pipe Prefabrication And Engineering

<http://cloud.excelplas.com/s/UBbp2ocepbXFLjN#pdfviewer>

CIRCULAR ECONOMY

Chevron Phillips Chemicals Announces Success in Advanced Recycling Technology of Polyethylene

<https://www.hydrocarbonprocessing.com/news/2020/10/chevron-phillips-chemicals-new-success-in-advanced-recycling-technology>

Chevron Phillips Chemical Marks 'Huge Step' in Plastic Recycling

<https://www.houstonchronicle.com/business/energy/article/Chevron-Phillips-Chemical-marks-huge-step-15631090.php>

CONFERENCES

Carbon Black World 2020 Has Been Postponed Until 2021 Due to COVID-19 Concerns

<https://www.carbonblackworld.com/carbon-black-world>

TRAINING

Electrofusion HDPE Pipe Joining Welding Method and Underground Pipe Installation Procedure

<https://www.youtube.com/watch?v=3n3oBrXWKyk>

JOBS

Aliaxis Seeking New Business Development Manager

<https://be.linkedin.com/jobs/view/new-business-development-manager-at-aliaxis-2197625472?refId=90789ac4-d112-432d-ae92-89e3eec99ffb&position-12&pageNum-0&trk=public-jobs-job-result-card-result-card-full-click>

Iplex Pipelines Seeking Sustainability Manager

<https://www.seek.com.au/job/50688749?type=standout>

QENOS Seeking Technical Development Specialist in Polyethylene

https://grabjobs.co/australia/job/full-time/manufacturing/technical-development-specialist-418395?utm_source=linkedInXML

Operator Wanted for HDPE Pipe Extrusion in Perth

Our client is now a global leader for customized on-site manufacture of superior performance High-Density Polyethylene (HD PE100) pipe systems.

<https://www.seek.com.au/job/50700363?type=standard>

Comprehensive News Portal on the Global Poly Pipe Industry

<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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