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

Korea Petrochemical Becomes New PE100 Resin Supplier (Breaking News)

<https://www.pe100plus.com/PE-Pipes/news/Welcome-to-a-new-prestigious-raw-material-supplier-i2022.html>

Investigation on the Thermal Butt Fusion Performance of the Buried HDPE Piping in Nuclear Power Plants

<https://www.sciencedirect.com/science/article/pii/S1738573318305709>

Extreme Testing of PEX Pipe Fittings with Car Pull Test (Video)

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

Warning Over Substandard PEX Pipes

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. Get your PEX pipes tested for Durability and Expected Service Life at ExcelPlas Labs.

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

Reliance Publish Sharkbite PEX Installation Guide Published Feb 2019

https://www.sharkbite.com/sites/g/files/rgohfh321/files/migrate/SB_PEX_Install_Instructions_2017_FINAL_WEB.pdf

PE Pipe Lining Installation Animation

<https://www.youtube.com/watch?v=VZo5VRvIr2c>

Chlorine Degradation in Plumbing Pipes

<https://www.flowguardgold.com/how-chlorine-degradation-impacts-new-home-performance/>

Borehole Installation Fails Using Sub-standard PE100 Pipe

<http://www.sappma.co.za/newsletters/January-2019-Newsletter.pdf>

Rehau Expands PEX for Municipal Water & Wastewater Line

Rehau is offering two additional cross-linked polyethylene PEXa pipes in their municipal piping program. In addition to Municipex water service line, the expanded product range now includes Municipex pre-insulated for cold-weather applications and Municipex force main for wastewater

applications. “With more than 1 billion ft of Rehau PEXa pipe installed worldwide and many North American water service projects, municipalities have reason to trust Municipex to safely and efficiently transport potable water” said Dale Gentry, Rehau Municipex national account manager. “Now, with our expanded line including pre-insulated and force main, we are building on this proven performance with cold-weather and wastewater solutions. These products offer the efficient installation and longevity that municipalities have come to expect from Municipex water service line.”

<https://www.rehau.com/us-en/mechanical-and-plumbing/municipal-piping>

The Investigation of the Welding Process of Different-Type Polyethylenes (New Research)

https://link.springer.com/chapter/10.1007/978-981-13-6133-3_23

Quality Assessment of High Density Polyethylene Pipe in Department of Water Supply and Sewerage (New Research)

<http://adrjournalshouse.com/index.php/civil-environment-engineering/article/view/179/150>

Uponor Patent New Plastic Insulated Pipe (New Research)

<https://patents.google.com/patent/US20190017646A1/en>

Hydraulic Characteristic of Selected Installation Valves Installed on Various Pipes Materials (New Research)

https://www.e3s-conferences.org/articles/e3sconf/pdf/2018/34/e3sconf_ciwt2017_00023.pdf

Welding Polymer Pipes at Low Climatic Temperatures (New Research)

<https://www.scientific.net/MSF.945.379>

New Patent for EF Welding of Lined Poly Pipe (New Research)

<https://patents.google.com/patent/US20180363822A1/en>

Characteristics of Water Quality and Bacterial Communities in Three Water Supply Pipelines (Ductile Iron, Stainless Steel and HDPE)

<https://pubs.rsc.org/en/content/articlehtml/2019/ra/c8ra08645a>

Australian Poly Solutions Offering Polyethylene Pipe Fusion Services, Technical HDPE Jointing Procedures and Industrial Plumbing

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

Pick Your Plastic Plumbing Pipe: PEX vs. PVC

<https://www.theintell.com/lifestyle/20190214/networx-pick-your-plastic-plumbing-pipe-pex-vs-pvc>

Unique Carbon Technology In PP-R Pipe Systems Now With Oxygen Barrier

https://www.pipelife.cz/cz-en/downloads/CARBO-OXY_leaflet_aj.pdf

Skycity Expects \$395 Mill from Fletcher Building

<http://www.loopvanuatu.com/global-news/skycity-expects-395-million-fletcher-building-compensation-building-delays-82466>

[-https://www.stuff.co.nz/business/110551367/sky-city-expects-395-million-from-fletchers-in-compensation-for-building-delays](https://www.stuff.co.nz/business/110551367/sky-city-expects-395-million-from-fletchers-in-compensation-for-building-delays)

Steel-Reinforced PE Pipes Used for Melbourne Drainage Project

https://www.pharostribune.com/news/local_news/article_e2cbf2f9-5d57-5c32-aa24-1d640d05e480.html

Richard Hill Becomes New President at BPF Pipes Group

<https://www.britishplastics.co.uk/News/richard-hill-becomes-new-president-at-bpf-pipes-group/>

ExcelPlas Offering TOF-D Inspection of HDPE Pipe in Service for Condition Monitoring and Weld Assessment

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

Warning Over Stresses on PEX Pipes

PEX piping has a maximum bend radius, which can lead to stress on the pipe caused by improper installation. In addition, extreme bends and kinks place a very high local stress on the wall of the pipe, making it more susceptible oxidative degradation. This is especially true in some states where water chlorine levels run high. PEX pipe that is bent beyond its limit can develop leaks at the stress points.

<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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