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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: * Aquasystem™ * CPVC * Dow * ExcelPlas * Flowguard™ * Fluorotec * Friul Filiere * GF Piping * GRP * Iplex * PEX * Pipeslotting * PE100 * PPI* PPN * Raccord Plast * Rehau * Simona * UHMWPE

INDUSTRY NEWS

Italian Company Develops Special Extrusion Equipment for HDPE pipes

<https://www.macplas.it/en/friul-filiere-develops-special-extrusion-equipment-for/20164>

Dow Patents New HDPE Composition for Pipes Based on UHMWPE with In-Built Processing Aid

<https://www.freepatentsonline.com/10858505.pdf>

SIMONA Plans Stock Split

<https://www.simona.de/nc/en/company/news/detail/simona-plans-stock-split-1/>

GF Piping Promotes its Aquasystem™ PP-R Piping for Use in Hot and Cold Potable Water

applications

<https://www.gfps.com/id/en-id/products-solutions/systems/aquasystem.html>

Perforated & Slotted Pipe Solutions for Drainage and Landfill Leachate Collection

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

Iplex Now Distributor for Raccord Plast Large Bore PVC fittings Across Australia

Raccord Plast srl, based in Pero near Milan, produces large-diameter fittings in sizes up to the market's largest

<https://www.raccordplast.com/en/company/>

Plastics Pipe Institute Celebrates 70 Years

<https://waterfm.com/plastics-pipe-institute-celebrates-70-years/>

ENVIRONMENT

Surprise Findings on Microplastics: PP Significantly Worse than HDPE

The effects of HDPE and PP microplastics on the soil and on earthworm gut microbiota
HDPE microplastics did not disturb the soil and earthworm gut microbiota however PP microplastics exposure significantly reduced bacterial diversity and altered bacterial community structure in the soil.

<https://www.sciencedirect.com/science/article/abs/pii/S0045653520334160>

Review of Toxicity and Carcinogenicity of Titanium Dioxide White Pigment

<https://oehha.ca.gov/media/downloads/crnrdartprioritization100120.pdf>

BUTT FUSION

Study on Butt Fusion Welding of Thick-Walled Polymer Pipes (PE100, PE100RC, PP-H AlphaPlus)

<https://aip.scitation.org/doi/pdf/10.1063/5.0031988>

Ultrasonic Evaluation of HDPE Natural Gas Pipe Thermal Butt Fusion Joint Aging Behaviour

<https://www.sciencedirect.com/science/article/abs/pii/S0308016120302477>

Fluoropolymer Non-Stick Coatings for Butt Fusion Heating Plates

<https://www.fluorotec.com/news/blog/butt-fusion-heating-and-welding/>

PEX PIPE

PPI Presentation on Correct Design and Installation of PEX Piping to Prevent Failures (PDF)

<https://plasticpipe.org/pdf/designing-pex-plumbing.pdf>

New Online PEX Plumbing Pipe Course Announced

<https://injectionmouldingworld.com/new-online-pex-plumbing-course-announced/>

PEX Piping & Fittings Problems Continue to Plague the Industry

- PEX-A (Uponor/Wirsbo and Rehau): dezincification of fittings and chemical leaching/odor (AquaPEX only)
- PEX-B (Zurn & Viega): dezincification of fittings
- PEX-C (Nibco/CPI/DuraPEX): cracked, leaking pipes
- PEX-AL-PEX (Kitec/IPEX): dezincification of fittings

<https://www.napoleon.cc/pex-plumbing-problems/>

PEX Pipe Problems? Re-Pipe with Flowguard Gold™ CPVC

<https://www.flowguardgold.com/blog/pex-problems-re-pipe-with-flowguard-gold-cpvc>

Improving the Thermal and Mechanical Properties of PEX Pipes with Spherical Graphite as a Reinforcing Filler

<https://onlinelibrary.wiley.com/doi/abs/10.1002/pc.25892>

Physico-Chemical Analysis of a Silane-Grafted PEX Stabilised with an Excess of Irganox 1076®

<https://www.sciencedirect.com/science/article/pii/S0141391020303827>

GRP PIPE

Take a Video Tour of the Amiblu GRP Pipe Factory in Poland (showing Flowtite™ and Amiblu™ NC Technologies)

<https://www.youtube.com/watch?v=QDrxr0amP18>

Mechanical Characterization and Optimum Design of Wound Glass-Fiber-Reinforced Polymer Pipes Based on the Winding Angle and the Number of Plies

<https://link.springer.com/article/10.1007/s11029-020-09912-3>

PIPELINE ASSET MONITORING

Predicting When and How Your Polymer Pipeline Asset Will Fail

This is a key part of any strategic asset management program. But how do you make the move from reactive to predictive maintenance to optimise spend, prioritise critical asset investment and ultimately make better informed decisions?

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

UPCOMING WEBINARS

Changes in the Structure of US Polyolefins Markets December Talk (15th December 2020)

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07ehgahgh960dfb40e&oseq=&c=8e6df7c0-1f01-11e8-ab60-d4ae529a7ac4&ch=8edb3880-1f01-11e8-ab8a-d4ae529a7ac4>

NEW UPCOMING CONFERENCES

Plastic Pipes in Infrastructure (Virtual Summit) 27-29 April 2021

<https://www.ami.international/events/event?Code=VE0013>

FREE POLY PIPE PODCASTS

The Poly Podcast (David Fink, PPI President Talks with Peter Dyke to Talk about HDPE Pipe)

<http://www.pepipe.org/podcast>

JOBS

Subsidiary Company of Vinidex, Zezt is part of Aliaxis Seeking Production Manager

<https://www.seek.com.au/job/51091212?type=standout>

MARKET INTELLIGENCE REPORTS (SPECIAL OFFER JUST \$500 EACH)

Stay on Top of All Competitive Threats, Changes, and Trends Within Defined Poly Pipe Market Segment

PPN Offering Geosynthetic 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/>

SEE AN ITEM OF INTEREST IN PPN – REQUEST A MARKET REPORT ON THAT POST

You can request a Market Intelligence Report for any of the Items Listed Above

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

Get More Poly Pipe News [HERE](#):

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 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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