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

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NEWSMAKERS: * ASME * Clover Pipelines * Dow * ExcelPlas * Low Sag PE100 * PE100+ Association * PIA * PPN * PP-R * Poly Pipe Solutions * Univation

PRODIGY™ Bimodal HDPE Catalysts for Low-Sag PE100 Pipe (Declassified)
http://cloud.excelplas.com/s/zmTNNunKtNWbWLD#pdfviewer

Dow Patent New Polyolefin for Pressure Pipes
http://www.freepatentsonline.com/10696828.pdf

ASME Standards take the Pressure Off Plastic Pressure Piping Projects (Breaking News)
https://insights.globalspec.com/article/14753/asme-standards-take-the-pressure-off-nonmetallic-pressure-piping-projects

ASME Publishes Codes for Thermoplastic Piping Systems [PDF]
https://www.asme.org/codes-standards/find-codes-standards/nm-1-thermoplastic-piping-systems?productKey=A2901Q:A2901Q

ASME Publishes Codes for Glass-Fiber-Reinforced Thermosetting-Resin Piping Systems [PDF]
https://www.asme.org/codes-standards/find-codes-standards/nm-2-glass-fiber-reinforced-thermosetting-resin-piping-systems?productKey=A2911Q:A2911Q

PPN Now Reaching Over 10,000 Readers in the Plastic Pipe Industry Worldwide (Free Subscriptions)
https://www.polypipenews.com.au/

Experiment on Frost Heave Failure Mechanism of PP-R Water Pipe
https://www.sciencedirect.com/science/article/abs/pii/S1350630719320369

Minimizing Failures To PVC Water Mains (Special Report)
http://cloud.excelplas.com/s/Wc8ZH5LLOp7Gw4n#pdfviewer

Poly Pipe Solutions (PPS) Based in Chinchilla, Queensland Provide End-to-End HDPE Pipeline solutions for the Energy and Resources Sectors (Sponsored Link)
https://www.polypipesolutions.com.au/

Clover Pipelines Pty Ltd Receives WSAA Approval for Clover/Rohr - Polyethylene (PE) Pressure Pipe
https://www.wsaa.asn.au/sites/default/files/appraisal/download/PA2033-20Issue-202-20WSAA-20Certificate-20--20Clover-20-20Clover-20Rohr-20PE-20Pipe-Final.pdf

Ground Displacements and Pulling Forces of Pipe-Swallowing in Well-Graded Sand
https://ascelibrary.org/doi/abs/10.1061/9780784483206.047

Cost & ROI Calculations for Polyethylene Pipe Fittings
https://agruamerica.com/polyethylene-pipe-fittings/

Electrofusion Wire Laying Machines for the Manufacture of Electrofusion Fittings Ranging from 20mm to 1400mm (internal diameter)
http://www.msa-engineering.co.uk/products/electrofusion-wire-laying/

Scale Deposition Inhibiting Composites Based on HDPE/Silicified Acrylate Polymer/Nano-Silica for Landfill Leachate Piping
https://www.mdpi.com/1996-1944/13/16/3497/pdf

Fracture Analysis for Reasons of Failure of Metal Braided Hose
https://iopscience.iop.org/article/10.1088/1757-899X/892/1/012109/pdf

AVK Civil Repair Clamps for HDPE and PVC Pipe Repairs
https://www.avkcivil.com.au/en-au/product-finder/repair-clamps-and-tapping-saddles/repair-clamps/748-90-002

New Polyethylene Pipeline Construction in QLD (Sponsored Link)
https://qldcivilengineering.com.au/capabilities/

Innovative Piping Systems & HDPE Specialists
https://polyfit.com.au/about.html

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 buttweld 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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