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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: * EPPT * ExcelPlas * Fletcher Building * plex * PE100 * PE100RC * PIPA * PPN * QENOS * Rocla * SIMONA

Iplex Parent Fletcher Building's Biggest Holder Calls for Australian Sell-off (Breaking News)
http://cloud.excelplas.com/s/WykpPPLga4RmYB8#pdfviewer

Iplex and Rocla and Lost About $15m Because of Fewer Larger Projects (Breaking News) Operating earnings from Australia fell from $77m to just $33m to June 30, 2020
https://www.nzherald.co.nz/business/news/article.cfm?c_id=3&objectid=12357719

SIMONA® PE100 RC-Line Pipes Ensure Drinking Water Supply
https://www.simona.de/en/company/news/detail/simonar-pe-100-rc-line-pipes-ensure-drinking-water-supply/

Evaluation of Bimodal Polyethylene from Chromium Oxide/Metallocene Hybrid Catalysts for High Resistance PE Pipe Applications
https://onlinelibrary.wiley.com/doi/abs/10.1002/mren.202000032

Tensile Behavior of High-Density Polyethylene Including the Effects of Processing Technique, Thickness, Temperature, and Strain Rate
https://www.mdpi.com/2073-4360/12/9/1857/htm

Polyethylene -The Plastic That Nobody But the Profiteers Want
https://www.greenleft.org.au/content/plastic-nobody-profiteers-want

Qenos Asssessing the Risk for Corrosion Under Insulation of their Ageing Process Vessels
https://www.bigmarker.com/IChemEAust/Methodology-for-assessing-CUI-risk-for-Process-Vessels

Qenos Showing How NIR Spectroscopy to Significantly Improve its PE Resin Production Process
https://www.metrohm.com/en/company/news/news-webinar-nirs-polymers/

The Debonding Failure Analysis of Corroded Pipes Repaired with CFRP Under Tension and the Bending Moment
https://www.sciencedirect.com/science/article/abs/pii/S0143749620301779

Apply Risk Management Principles to Improve Extrusion Operations
https://www.plasticstoday.com/extrusion-pipe-profile/apply-risk-management-principles-improve-extrusion-operations

ExcelPlas Poly Pipe Testing (EPPT) Labs Remain Fully Operational as Permitted Essential Service During COVID-19 Lockdown
https://www.excelplas.com/

Assessing Remaining Service Life of Polyolefin Pipes (HDPE, PEX, PP-R, PB) (How Long Will My Pipes Last?)
ExcelPlas has developed Protocol for Determining the Remaining Service Life of In-Service

HDPE Pipelines
The 5 step protocol is based on lab testing to measure the following:
I. The oxidative induction time (OIT) profiling to assess whether or not oxidation protection is still afforded by the additives.
II. Measure the carbonyl index (CI) to assess extent of any polymer oxidation that has occurred.
III. Determine the critical CI at which oxidative stress cracking (OSC) is initiated.
iV. Measure oxidative stress cracking resistance (OSCR) to determine the time until OSC is initiated.
V. Measure the depth of micro cracking on 180 degree bent coupons by Scanning Electron Microscopy
http://www.excelplas.com/

ExcelPlas Labs - for Testing Times
https://www.excelplas.com/

PPN Now Reaching Over 10,000 Readers in the Plastic Pipe Industry Worldwide (Free Subscriptions)
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 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
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