Iplex Issues Update on Polybutylene Pipe Failures

Author : PPN

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

Global News on Plastic Piping and Fittings in Real-Time

NEWSMAKERS: * ADS * Advanced Drainage Systems * Aliaxis * Australian Plastic Piping Failures * Borealis * CPVC * Duane Priddy * ExcelPlas * Failure Analysis * FBU * Fletcher Building * GF Piping * GRP Pipes * IPEX * Iplex * PE100+ Association * PEX Pipe Failure * Plastic Pipe Failures * Polybutylene Pipe Failures * PPI * PP-R Pipes * Pro-Fit™ * PVC-O * PVC Pipes * Reece Hopper * REHAU * RMIT * Uponor * Vinidex

BREAKING NEWS

Iplex Issues Update on Polybutylene Pipe Failures in Western Australia and Lists 5 Poor Installation Practices That Can Cause Failure
Iplex has tested 875 individual samples of Pro-fit pipe (both used and unused) at their our accredited NATA laboratory as well as eight external Australian and global laboratories and so far conclude installation practices are the cause of the issue

Major Leak in HDPE Piping Disrupts Water Supply in City Areas

LEGAL NEWS

Failure PEX Plus PEX-a Pipes Leads to 10 Year Long Legal Case in Australia
Sections of PEX pipe carrying hot water burst and caused water damage to the luxury $30 Million House

Court Orders Re-evaluation of Tender for PP-R Pipe Fittings
Bid by winner was 'irregular and invalid': Court

INDUSTRY NEWS

Fletcher Building Share Price Climbs on its Optimism that the WA PB Pipes Failures are Related to Installation
FBU also revealed recently that it has been assigned an investment grade credit rating from Moody's Investors Service of Baa2 with stable outlook

PE Pipe Company Purchased a Staggering 240,000 tonnes of Recycled HDPE in 2023

PPI Issues Industry Warning on Effect of Chlorine on Plastic Pipes However CPVC Found to be Resistant

Aliaxis Leads 30 Mill Investment in New Crop Irrigation Technology from The Netherlands

Applications & Challenges of HDPE Material for Hydrocarbon Piping

Correct Orientation – The Latest Developments in PVC-O Pipes

PE100+ Association holds Advisory Committee Meeting in Vienna

PEX Pipe Fittings Described as 'Vulnerable to Failure'
The more fittings you have in a system, the higher the likelihood of failure. However, not all fittings are created equal. With PEX each fitting will always contain multiple components, each of which can be vulnerable to component failure.

Advanced Drainage Systems Issues Fiscal 2023 Sustainability Report

HDPE Pipe vs RCP Pipe: Comparing Efficiency & Install Times

RMIT and Uni of Melbourne Scientists Develop Failure Prediction of Buried Pipeline by Network-based Geospatial-Temporal Solution

Smart Coating for Preventing Solvent Damage of PVC Pipes

Analytical Method for Deformation and Stress Calculation of Bell-and-Spigot Joints in PVC-U pipes

Reece-Hopper Now Represents REHAU PEX Pipe in Texas

GF Piping Systems wins Silver 2023 Cannes Corporate Media & TV Award for Publicity Film

Wellcamp QLD Property For Sale Adjacent to Vinidex and Iplex Pipe Plants

A Framework for Structural Design of Geopolymer Spray Applied Pipe Lining

Extreme Weather Events as an Important Factor for the Evolution of Plastisphere

PP-R

Effect of Nano-Silica/?-nucleating Agents on the Crystallization behaviour and Mechanical Properties of PP-R Pipes and Fittings

BOREALIS RA130E PP-R RESIN RECOMMENDED FOR HOT WATER PIPES AND FITTINGS

NEW JOBS

Aliaxis Seeking Specification Development Director

Vinidex Seeking Piping Product Development Engineer

CONDITION ASSESSMENT

ExcelPlas Pipe Condition Assessment (PCA)
Owners and operators of plants have been using thermoplastics for many years, transporting water, gas and chemicals along their process. However, for operational and maintenance purposes, the asset integrity of the piping system is required. This could be for a number of reason, such as piping system maintenance, ability to maintain current service conditions. EP offers its 30 plus years of plastic piping application experience to assess the fitness for service of used piping. Our specialists inspect the samples in our state-of-the-art accredited materials testing laboratory for piping components, to give our clients the necessary information to make an informed decision and next steps during a project's operational, maintenance or design phases resolve threats to client assets. ExcelPlas offers the following testing to determine the condition of plastic pipes:
Technical Data:

- Visual Inspection
- Dimensional check
- Oxidation Induction Time (OIT)
- Melt Flow Rate (MFR)
- Fourier-transform Infrared Spectroscopy (FTIR)
- Hydrostatic Test
- Differential Scanning Calorimetry test (DSC)
- Vicat test
- Microscopic analysis
- Report with assessment of the integrity of the piping material

PLASTIC PIPE CONSULTANTS

Plastic Pipe Consulting Experts and Services
If you need a team of pipe plastic experts, then ExcelPlas Consulting is the obvious choice - our size is our strength in a market dominated by single consultants.
We provide services on everything from material selection, product testing, processing to failure analysis
https://www.excelplas.com/contact-us/

PIPE FAILURE ANALYSIS

ExcelPlas Investigating Poly Pipe Failures
Through failure analysis & forensic chemistry, we help clients improve product performance, increase profits, & resolve product liability claims with plastic pipes and fittings.
We are dedicated to unmatched excellence in failure analysis, investigative chemistry, material testing, and expert witnessing for plastics, polymers and composites.
With over 25 years of investigative experience, the staff at ExcelPlas are uniquely positioned to help clients resolve the most challenging performance and processing issues related to materials and finished pipes and fittings.
https://www.excelplas.com/contact-us/

MORE POLY PIPE NEWS

PPN the Digital News Platform for Communicating to the Global Plastic Pipe Industry
Send Us Your News!!! PPN Publishes weekly.
https://www.youtube.com/watch?v=eUKxWbOZY10

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/

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 3mm 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/

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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.

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