Massive Fire at HDPE Pipe Manufacturing Facility in the US

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

Global News on Plastic Piping and Fittings in Real-Time

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BREAKING NEWS

Massive Fire at HDPE Pipe Manufacturing Facility in the US

Georg Fischer Trims Tender Offer Price for Uponor Takeover
GF Adjusts the Offer Price
Georg Fischer Lowers Offer Price For Uponor

Industry Alert – New Study Finds HDPE and PEX-a Pipes Accumulate and Release Lead into Drinking Water
Plastic potable water pipes shown to accumulate heavy metals on their surface if they convey

metal-contaminated tap water

INDUSTRY NEWS

AGRU Announces HDPE Pipe Now Available in Ductile Iron Pipe Sizes (DIPS)

Asahi America, Inc. Announces Strategic Partnership with McElroy to Supply Welding Equipment for Plastic Pipes

Borealis Factory Workers Exposed to Carcinogen — CEO: 'There has been minor symptoms'

Borealis Patent PE Pipe Resin with Very Low Sagging and Slow Crack Growth (SCG) Resistance

Fletcher Building Share Price Continues to Slide on Iplex PB Pipe Woes

HDPE Pipe Resin Manufacturers Embrace Non-PFAS Polymer Processing Aids Amidst Growing Regulatory Pressure

Heatwaves Hasten Polymer Degradation and Failure of Plastic Pipes

UV Stabilization HDPE Pipes by a Commercial Few?Layer Graphene (FLG)
Experimental results showed that the addition of only 0.25?wt% FLG fully UV stabilized 3-mm thick HDPE

REHAU Expands EVERLOC+ Compression-Sleeve Fitting System for PEX Pipes

American PE Pipe Company ADS Shows Strong Financial Performance

Predicting the Service Life of Polyethylene Pipes Under Crack Expansion Using the "Random Forest" Method

Analysis of Influencing Factors of Tensile Performance Test of Polyethylene Pipe

Designing PEX Plumbing Systems to Optimize Performance and Efficiency (VIDEO)

Lateral Deformation Behaviour of Structural Internal Replacement Pipe Repair Systems

Aditya Birla Promotes its

HDPE Pipes with Multi-walled Carbon Nanotubes for Enhanced Mechanical Properties

Comparative Study of Leak Detection in PVC Water Pipes Using Ceramic, Polymer, and Surface Acoustic Wave Sensors

Reducing Plastic Pipe Waste Through Pipeback

Pipe Failure Experts

When a plastic pipe does not perform as expected, the consequences can be expensive, damaging to the reputation of your brand and often involves challenging legal proceedings. At ExcelPlas our polymer experts can help not only show why a material or application has caused

an issue, but also to help you ensure it does not happen again in the future.
At ExcelPlas we understand the real-world service-life and environmental challenges polymer materials face. Our experts can help you predict, manage and improve the performance of your polymer-based material or pipe product whilst ensuring its compliance. We truly understand polymer science and through our ISO 17025 accredited facilities in Australia, we offer a comprehensive range of material testing, pipe testing and technical consulting services.

NEW JOBS

Iplex Pipelines Seeking Sales Manager for NSW

Vinidex Seeking Project Coordinator for PVC Pipe, PE Pipe and PP Pipe Systems

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

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https://www.polypipenews.com.au/advertise/

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Poly Pipe News is now sent to over 4500 Poly Pipe Industry Members every week.

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