

# February 2020 Vol. 4

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

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NEWSMAKERS: \* BP \* Corys \* ExcelPlas \* Georg Fischer \* PPI \* Saudi Aramco \* Weld Bead Assessment

### **Georg Fischer Sales 2019 Decline of 18.6% Due to Geopolitical Uncertainties which Affected the Global Economy (Declassified)**

<https://www.teletrader.com/pta-adhoc-georg-fischer-ag-gf-piping-systems-with-strong-performance-economic-headwinds-affect-o/news/details/51352977?ts=1582844570446>

### **ExcelPlas Plastic Pipes Testing Laboratory Delivers Independent Test Data for Condition Assessment and Life Time Evaluation**

The capabilities include ISO/IEC 17025 accredited hydrostatic pressure testing and chlorine resistance testing to ASTM F2023 and ASTM F2263. ExcelPlas also offers pipe grade evaluations and SEM-analyses in accordance with ISO-9080, Notch testing, Fracture mechanics, mechanical testing like Tensile tests, FNC-tests, as well as physical analyses such as: DSC, FTIR, OIT., Density, MFR, Carbon Black Content and Pigment dispersion measurements.

<https://www.excelplas.com/>

### **Full Year 2019 Georg Fischer AG Earnings Presentation Transcript (Declassified)**

<https://finance.yahoo.com/news/edited-transcript-fi-n-earnings-211500261.html>

### **Georg Fischer Announces Fire Retardant Plastic Pipe that Fulfills the Marine L3 Fire Standards for the First Time (Breaking News)**

The test requires the plastic pipe to resist the temperature of approximately 1,000 degrees

Celsius for 30 minutes. GF will launch this product within the next 3 years  
<https://finance.yahoo.com/news/edited-transcript-fi-n-earnings-211500261.html>

**Business for Sale – NDT of HDPE Butt Fusion Weld, Pipeline CQA includes all testing equipment and training (\$35K ONO)**

<http://cloud.excelplas.com/s/9QxCLINov56S93m>

Expression of Interest please email [info@excelplas.com](mailto:info@excelplas.com)

**Examples of Contamination and Void Defects in HDPE Pipe Butt Welds Detected by TOFD**

<http://cloud.excelplas.com/s/XnPFduQddPIUCx7>

**UAE family-owned business located in Dubai, Announces a joint venture (JV) with Georg Fischer (GF) Piping Systems (Breaking News)**

<http://www.oilreviewmiddleeast.com/industry/corys-investments-georg-fischer-and-egypt-gas-form-jv-for-gas-and-water-distribution-market>

**Looking for More Polymer Pipe News and Market Intelligence – Visit Our Web Portal**

<https://www.polypipenews.com.au/>

**New Weld Bead Assessment (WBA) Tool Provides Peace of Mind for Butt Fusion Welders**

In the past, HDPE pipe welders or quality control managers assess the quality of the bead with the naked eye to see whether it is perfectly fused and as uniform as possible.

Now the WBA tool can assess a weld bead and provide a seal of approval as quickly and objectively. The weld bead assessment (WBA) tool allows a Pass / Fail certification per weld.

<http://cloud.excelplas.com/s/yecBFYZHaaxola>

**Why the Oil and Gas Industry Needs (Flexible) Pipe Dreams**

<https://www.oilfieldtechnology.com/special-reports/26022020/why-the-oil-and-gas-industry-needs-flexible-pipe-dreams-part-two/>

### **New Flexible Pipe Technology Designed for Challenging Environments**

<https://www.offshore-mag.com/business-briefs/equipment-engineering/article/14168451/new-flexible-pipe-technology-designed-for-challenging-environments>

### **Saudi Aramco forms Reinforced Thermoplastic Pipes JV with Baker Hughes (Breaking News)**

<https://www.oilandgasmiddleeast.com/products-services/36245-saudi-aramco-forms-non-metallic-jv-with-baker-hughes>

### **BP Upgrades to KPS Double Wall Polymer Piping to Solve Fuel Egress Issues (Breaking News)**

<https://www.petroplaza.com/knowledge/24223>

### **Major Plastic Pipe Conference to Focus on Hydrogen Transport in Plastic Gas Pipes (Breaking News)**

<https://www.eppm.com/materials/ppxx-to-focus-on-the-future/>

### **Australia's State-of-the-Art 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/>

### **Australian Poly Solutions Specialises in HDPE Pipe Fusion Welding and Hydrostatic Testing Services with Knowhow and Experience you can rely on**

<https://www.aussiepoly.com.au/>

### **RITMO: APP - SET & GO! PRO Butt Fusion for Pressure Pipe**

<https://www.ritmo.it/en/butt-fusion-for-pressure-pipe/app-set-go-pro/>

Video: <https://youtu.be/YP4GmmBdufU>

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### **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](mailto: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](mailto:john@excelplas.com)  
To subscribe, visit <https://www.polypipenews.com.au/subscribe/>

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