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LOGSTOR launches a new flexible pipe system, LOGSTOR PertFlextra

After tenacious engineering and testing we are now ready to present what we consider a breakthrough product in our product portfolio. One product offering flexibility, low heat loss and long lifetime through innovative design.



commitment to the future of heat networks.

KWD-globalpipe, 10.11.2023. Peter Jorsal, Product & Academy Manager says: "We have invested heavily in our pipe technology and the launch of this new flexible district heating pipe system underpins our

LOGSTOR PertFlextra is a complete range of diffusion tight, flexible pre-insulated pipes for community - and district heating according to prEN17878-1/2. The service pipe in PertFlextra is made of PE-RT type II, featuring an aluminium diffusion barrier that prevents the diffusion of oxygen into the water and water vapor from the water into the insulation, ensuring dry insulation over lifetime. The service pipe is insulated with PUR and the outer casing is a corrugated casing of PE-HD with built in EVOH diffusion barrier that will ensure that heat loss property will not deteriorate over lifetime.



It is available as single and TwinPipe systems and includes all press couplings, casing joints, fittings, and tools needed to establish a complete pre-insulated flexible piping network. Flexible pipes are the ideal choice for many district heating projects where there is a need to reduce installation times and lower the capital cost for system owners and developers.

We have made great efforts to ensure that our new PertFlextra pipe offers premium performance. Over a working life of minimum 50 years (according to prEN17878), the operational cost savings -due to low heat loss - speak for themselves."

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HIX Publishing, Dipl.-Ing. Jutta Hix, 58332 Schwelm /Germany, Tel. +49 (0)2336 / 40 66 42, www.kwd-globalpipe.de. **Subscription rates:** 40 issues per year EUR 250,00 (Germany: + VAT). Subscription will be renewed automatically for a further year unless cancelled in writing 8 weeks before expiry date. Up to 5 persons of the ordering company can receive KWD-globalpipe. © **KWD-globalpipe**. All rights reserved. **Editor in Chief:** Dipl.-Ing. Jutta Hix, **Assistant Editors:** Michaela Hamich-Helbrecht, Achim Seydel.

Kingspan LOGSTOR, a member of the Kingspan Group, is a global supplier of complete pre-insulated pipe systems. With more than 50 years of research, development, and experience, we have become the leading manufacturer of pre-insulated pipe systems with immense know-how related to insulation as a means of improving energy efficiency.

Contact: LOGSTOR Denmark Holding ApS, www.logstor.com / Full [press release](#) (pdf)

SANHA: Fire protection guaranteed: Piping systems from SANHA® are certified

Building owners want as much usable space as possible. As one of only a few manufacturers, SANHA® has been providing installer with safe, certified solutions for years that meet the strict specifications and enable you to install pipes at a minimum distance to each other in an uncomplicated and space-saving manner.



KWD-globalpipe, 10.11.2023. For simple and safe installation and a maximum of usable space, SANHA® pipe systems are tested and approved for minimum clearance in a wide range of combinations and dimensions. This means that the pipes can be routed through room-enclosing components without a minimum distance to each other or to other pipes.

Whether residential or commercial, the option for "zero clearance" installations benefits everyone involved. Installers and building owners both benefit from certified solutions, the fire protection specifications are met, and more usable space is available for the interior. This can mean up to 15cm per shaft for a standard installation with drinking water, heating, and wastewater pipes. Perhaps even more important: Any "surprises" during acceptance are safely avoided - in contrast to piping that seems favourable at first glance, but only at the cost of missing certifications, among other things.

The fire protection suitability of SANHA® piping systems was confirmed years ago by the German Materials Testing Institute (MPA) in Erwitte and applies to both wall and ceiling penetrations. A total of seven metallic systems made of stainless steel, carbon steel and copper were tested by the MPA. In the test set-up, e.g., heating or water supply pipes were tested and various common situations such as wall penetrations were simulated. The pipes were fitted with suitable fire protection shells or collars. The result: SANHA® systems withstand the required fire resistance class (up to R 120).

Contact: SANHA GmbH & Co. KG, Germany, www.sanha.com / Full [press release](#)



Installing at a minimum clearance between pipes with tested and certified systems saves space and creates safety for all those involved in the construction (© SANHA)

BRUGG Pipes goes BIM: Option of networked construction planning with their products

With our brand-new Building Information Modeling (BIM) library from BRUGG Pipes, civil engineering planning work can be done both digitally and efficiently, especially when combined with local and district heating networks.

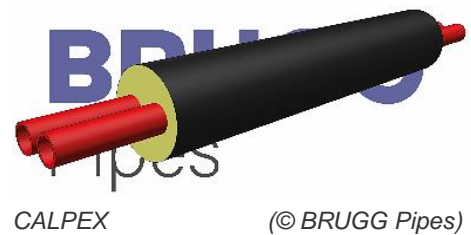


KWD-globalpipe, 10.11.2023. Their innovative concept gives planners access to over 1,000 items from our extensive range of CALPEX and FLEXSTAR pipe systems, including connection technology and accessories. With just a few clicks, you can select the type of pipe you need and download it in your required format. Our BIM library features over 50 BIM and nearly 200 CAD format variants in 4 languages (English, French, German, Italian). You can also download the corresponding technical data sheet for each item as a PDF file.

They are constantly updating and expanding the platform to provide you with the latest information. All relevant information about a building is recorded and managed in a digital model. This not only includes geometric data, but also information on materials and other relevant factors.

Thanks to BIM, they enable more efficient collaboration between all parties involved in construction as well as better planning and control of construction projects. You can access the BRUGG Pipes BIM library using the following link: <https://bruggpipes.com/bim>.

Contact: BRUGG Pipes, Switzerland, www.bruggpipes.com



GF to acquire majority stake in leading piping systems company Corys in Dubai

GF Piping Systems, a division of GF acquired 51% in Corys Piping Systems LLC (CPS), located in Dubai (UAE). The new joint venture will create a leader in premium flow solutions across all relevant market segments in the region.

+GF+ GF Piping Systems KWD-globalpipe, 10.11.2023. Established over 40 years ago, Corys Piping Systems LLC - formerly known as Hepworth PME LLC - was established to better manage the business under one unique umbrella company with all leading regional brands, including Hepworth, Dacta, GF & Wavin. For more information see KWD-globalpipe article No. 842, "Hepworth PME LLC transitioned to new entity name Corys Piping Systems LLC", published on 17.06.2022.

GF and Corys Piping Systems (CPS), founded in 1977 and with sales of approx. CHF 80 million in 2022, have a longstanding history of partnership. The new entity, GF Corys, will combine GF's global experience, innovative solutions, and technology with the deep market understanding that CPS has developed in the region over the years. The acquisition is fully in line with GF Piping Systems' strategy to strengthen its global presence in regions with a sizeable and growing market.

"With this joint venture, we are creating the market leader for sustainable piping solutions in the region, an important economic hub that offers a lot of growth potential," says Andreas Müller, CEO GF. "We aim to use innovative piping solutions to ensure water security and the safe and sustainable transport of fluids. A big welcome to all employees of CPS."

GF Corys will include sales offices and major manufacturing sites in UAE, Oman, Bahrain, and Kuwait, with around 450 employees. The current executive management team of CPS will stay on board, to ensure continuity within the business, and will be reinforced by GF executive team members. In the near term, plans include establishing a flagship customer experience and training center in the UAE and expanding local manufacturing capacity.

Source: Corys Piping Systems LLC, UAE, www.coryspiping.com / Full [press release](#)

Contact: Georg Fischer Piping Systems (Switzerland) Ltd. – GF International, www.gfps.com

Henkel acquires supplier for innovative composite repair & reinforcement solutions

Henkel acquired the US-based Critica Infrastructure, a specialized supplier of maintenance, repair and overhaul (MRO) composite solutions for the world's most critical infrastructure such as oil and gas transmission as well as municipal water supply systems / Strengthen position in sustainability driven, fast-growing and highly profitable market



KWD-globalpipe, 10.11.2023. With aging infrastructure and the increasing relevance of sustainability, demand for repair solutions that extend asset life is gaining importance. Therefore, maintenance and repair solutions for industrial and municipal applications are becoming increasingly significant. While Henkel has been expanding its portfolio for maintenance, repair, and overhaul (MRO) solutions over the past years, the acquisition of this attractive adjacent business adds a large,

innovative, and certified portfolio of composite repair and reinforcement products for the industrial and municipal infrastructure market.

“As part of our strategic growth agenda, compelling acquisitions play a key role in actively shaping our portfolio. This transaction is an important step to significantly strengthen our maintenance, repair, and overhaul portfolio in a dynamically growing market by expanding our offering through innovative solutions in adjacent application areas. Our aim is to create a new platform that will enable us to add further adjacent businesses, stimulate further growth and enhance our position as global leader in the adhesive technologies market,” said Henkel CEO Carsten Knobel.



The portfolio of Critica Infrastructure comprises composite wrap and reinforcement solutions as well as insertion valves for oil and gas transmission, refining, chemical, and water supply systems.

(Photos: © Henkel)

Critica Infrastructure is active in many countries with a strong focus on North America and is expected to reach sales of around 100 million euros (around 110 million USD) in 2023.

Contact: Henkel AG & Co. KGaA, Germany, www.henkel.com / Full [press release](#)

Purmo Group starts cooper. with H2 Green Steel for near zero-emission steel supply

Purmo Group has entered into a binding agreement with H2 Green Steel, for the purchase of 140,000 tons of green steel during 2026-2033. The deliveries will support the Company in its further advancement in sustainability. Steel represents approximately 50% of all raw material purchases in the Group.

PURMO GROUP KWD-globalpipe, 10.11.2023. “This is an excellent collaboration with H2 Green Steel and another milestone in our sustainability journey towards carbon neutrality. With this agreement, we will be pioneers in our industry, securing the supply of green steel and starting the production of green steel products. Among these, our heat pump radiator range is an important product group in our core markets, where the energy renovation trend is strong. Our customers are demanding new, and more energy-efficient heating and cooling systems and Purmo Group is well positioned to fulfil this growing demand”, comments John Peter Leesi, CEO of Purmo Group.

H2 Green Steel's integrated, digitalised, and circular plant is located in Boden, northern Sweden and will start production at the end of 2025. The plant is integrated with the world's largest electrolysis plants and is powered by green hydrogen produced with renewable electricity. It enables the reduction of CO₂ emissions by up to 95% compared to traditional steelmaking powered by coal.

Contact: Purmo Group Plc, Finland, www.purmogroup.com / Full [press release](#)

Global PVC pipe market: Water supply & agriculture make largest market contribution

PVC pipes market: Information by type (PVC-C, PVC-P, PVC-U), application (sewerage, plumbing), end-use (agriculture, building and construction), and region – Forecast till 2031 / Fastest growing market: Middle East and Africa / Largest market: Asia Pacific / Growth rate: CAGR of 5.9% from 2023 to 2031 /



KWD-globalpipe, 10.11.2023. The global PVC pipes market size was valued at USD 25,484.20 million in 2022. It is projected to reach USD 42,690.83 million by 2031, growing at a CAGR of 5.9% of the forecast period from 2023 to 2031.

The largest contribution to the market makes **PVC-C segment** by type (estimated to grow at a CAGR of 6.2% during 2023-2031), the **water supply segment** by application (estimated to grow at a CAGR of 6.8% during 2023-2031) and the **agriculture segment** by end end-use make (estimated to grow at a CAGR of 6.1% during 2023-2031). Asia-Pacific is the most significant revenue contributor by region.

Market dynamics: Drivers – Industry growth in the construction sector / **Restraint** – Changing prices for raw materials / **Opportunities** – Growing use of PVC with bio-attributes

Regional analysis: Asia-Pacific dominates the global market – The global PVC pipes market is branched into four regions: North America, Europe, Asia-Pacific and LAMEA

- During the forecast period, Asia-Pacific is the most significant revenue contributor and is expected to grow at a CAGR of 6.3% during the forecast period and the region is projected to maintain its dominant position. This can be linked to the rise in building projects in this area. As a result of an increase in the number of initiatives and activities related to maintenance undertaken by the government, there has been an uptick in the number of construction-related maintenance and repair jobs, which has further contributed significantly to the expansion of the PVC pipe market.
- Additionally, Asia Pacific will see the highest market growth in the coming years due to the deployment of several infrastructure projects and the need for rainwater harvesting to cater to the need for water in rural areas for a longer duration. These factors are expected to drive increased demand for rainwater storage systems.
- The Middle East and Africa is the region that is currently driving the market with its massive investments in the construction and oil and gas industries worldwide. In addition, the Saudi Vision 2030 program is quickly becoming the most critical growth factor for the development of the construction sectors of the GCC and the major countries of the Middle East and Africa. Investing in construction and refurbishing projects across Latin America increased the region's demand for piping and fittings; it was discovered that the region's GDP and trading activities benefited.

Key players in the PVC pipes market: Astral Polytechnik Limited, China Lesso Group Holdings Ltd., Advanced Drainage Systems Inc., Amanco, National Pipe and Plastics Inc., JM Eagle Inc, Polypipe Plc, NAPCO, Finolex Industrieis Ltd and IPEX Inc.

Source: www.straitsresearch.com / For more information and order form click [here](#).

Global PVC pipe market driven by increasing product usage in plumbing applications

Global PVC pipe market growth rate: CAGR of 4.31% from 2023 to 2028 / Currently, the irrigation segment holds the largest market share / Region-wise, Asia presently holds the leading position in the market



KWD-globalpipe, 10.11.2023. According to the latest market research report by IMARC Group, titled "PVC Pipes Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028," the global PVC pipes market size reached US\$ 23.8 Million Tons in 2022. The market is anticipated to reach a value of US\$ 31.1 Million Tons by 2028, exhibiting a CAGR of 4.31% during 2023-2028.

Significant growth in the construction industry majorly drives the global market. This can be supported by the growing construction of residential buildings, along with the escalating need for renovation and repair activities across the globe. With the increasing number of individuals moving to urban areas, there has been a considerable demand for infrastructures, such as roads, water supply lines, and sewage systems, that require the utilization of PVC pipes.

Coupled with this, the widespread adoption of PVC pipes in the manufacturing industry due to their numerous features, including affordability, corrosion resistance, long-lasting, and lower maintenance costs, is also significantly supporting the market. Apart from this, numerous governments across the globe are introducing regulations that promote the usage of PVC pipes over other materials to reduce pollution and minimize the strain on natural resources, thereby accelerating the product demand in numerous countries. Moreover, leading manufacturers are applying molecular orientation in PVC pipe production, resulting in the development of PVC-O pipes, which is creating a positive market outlook.

Market Summary:

- **Based on the application**, the market has been segmented into irrigation, water supply, sewerage, plumbing, HVAC, and oil and gas.
- **Based on the region**, the market has been categorized into Asia, North America, Europe, the Middle East and Africa, and Latin America.
- **Some of the key players:** China Lesso Group Holdings Limited, Fujian Aton Advanced Materials Science & Technology Co Ltd., Hebei Bosoar Pipe Co. Ltd., Pipelife Austria GmbH & Co KG, and Plásticos Ferro S.L.

Source: IMARC Group, www.imarcgroup.com / For more information and order form click [here](#).

Global PVC pipe market: PVC-U has significant share and Asia Pacific has sizable share

Global PVC pipes market size, share, growth, analysis by type (PVC-C, PVC-P, PVC-U) and by application (irrigation, water supply, sewerage, plumbing, oil and gas, HVAC, others); Regional analysis; Competitive landscape; Key trends and developments in the market; 2024-2032 / Growth rate: CAGR of 4.3% from 2024 to 2032



KWD-globalpipe, 10.11.2023. The global PVC pipes market size attained a volume of approximately 28.93 million tons in 2023. The market is expected to grow at a CAGR of 4.3% in the forecast period of 2024-2032, reaching a volume of around 42.26 million tons by 2032.

Key market trends

- **The low cost of PVC along with increased** strength, improved durability, and easy installation of the PVC pipes has increased its popularity among various end users leading to the overall growth of the PVC pipes market.
- **Rising awareness regarding** the importance of clean water supply in rural areas is fueling the demand for PVC pipes. The high degree of inertness and corrosion resistance of PVC pipes helps them in preserving the quality of drinking water.
- **Increasing infrastructural development** in residential and commercial sectors, particularly in emerging economies is surging the demand for PVC pipes. These pipes have extensive applications such as in plumbing, drinking water distribution, sewerage, and HVAC systems, among others.

Market share by type: PVC-U accounts for a significant share of the PVC pipes market by type owing to its rising application in the transportation of sewage, underground drainage, waste, and drinking water. They are a less porous material which increases the strength of the pipes and reduces the maintenance requirement. The lead-free property reduces risk of contamination and increases its application in healthcare and hospitality sectors. Increasing awareness regarding the importance of adequate sewage and plumbing maintenance is anticipated to increase the demand for PVC-U pipes further in the coming years.

Market share by region: The Asia Pacific occupies a sizable share of the global PVC pipes market and is expected to grow further in the forecast period owing to growing urbanisation and increasing construction activities in the region. Various governments in the region are taking initiatives to increase maintenance and repair activities, replacing older pipes with PVC for greater effectiveness and durability. The large populations in countries such as China and India are surging the demand for PVC pipes for water supply, sewerage, and irrigation applications, contributing to the growth of the market for PVC pipes in the Asia Pacific.

Key players in the PVC pipes market: JM Eagle; Formosa Plastics Corporation; Shin-Etsu Chemical Co., Ltd; Westlake Corporation; IPEX Inc.; Cresline Plastic Pipe Co., Inc; Dura-Line LLC; Tigre S/A; Finolex Industries Limited; Diamond Plastics Corporation; National Pipe and Plastics, Inc; Others.

Source: EMR, www.expertmarketresearch.com / For more information and order form click [here](#).

Spotlight on PVC: Day 1 insights from Plastic Pipes XXI Conference 2023

Conference papers: Delving into assessment of degree of gelation of U-PVC pipes / PVC pipes and other polymer pipes are not a significant source of microplastics in water / Method to calculate cyclic life for gasketed PVC pipes / Pressing need and social consciousness for sustainability in the plastic pipe industry / Case study supporting the sustainability of PVC-O pipes for pressurised water transport / Challenges for recycling and reusing PVC products



KWD-globalpipe, 10.11.2023. PVC pipes took center stage on Day 1 of the [Plastic Pipes Conference PPXXI](#) in Lake Buena Vista, Florida, USA. Here's a snapshot:



- Antonio Rodolfo Jr. from Braskem S/A **delved into the assessment of the degree of gelation of U-PVC pipes**. Their research confirmed the suitability of curved three-point bending (CTPB) specimens for EWF testing of pipe samples. The study also highlighted the EWF as a promising alternative for gelation assessment, showcasing a significant correlation between EWF parameters and the DSC degree of gelation.
- Peter Sejersen from TEPPFA presented the results of **research on microplastics from drinking water and stormwater pipes**. The studies suggest that pipes made from PVC and other polymers are not a significant source of microplastics in water.
- Jay Parvez from the Uni-Bell PVC Pipes Association discussed the **evolution of cyclic methods for PVC force mains**. He introduced the Folkman method, a new, simplified equation developed in collaboration with Utah State University, to calculate cyclic life for gasketed PVC pipes.
- Zoran Davidovski from Pipelife International highlighted the **pressing need for sustainability in the plastic pipe industry**. He shared Pipelife's strategies, focusing on circular solutions to reduce the CO2 footprint in construction and usage phases, underscoring the importance of industry-wide collaboration for sustainability.
- Ricardo Pascual Galan from AENOR emphasized the **rising social consciousness towards environmental sustainability, particularly in the realm of PVC-U pipes**. With the CEN Standardization Committees setting benchmarks for recycled plastic content, AENOR has introduced a certification scheme for recycled material in PVC-U pipes.
- Ignacio Muñoz from Molecor highlights their company's innovative air-based technology that has expanded the range of PVC-O pipes from DN400 mm (16") in 2006 to DN1200 mm (48") today, catering to large diameters and high pressures. These **PVC-O pipes offer a sustainable alternative to traditional steel or ductile iron pipes**, especially in challenging conditions. Not only do they provide installation benefits, but they also lead to significant energy savings in water transportation.
- Shane Harton from C.W. Brabender Instruments discussed the **potential of recycling and reusing PVC products** to promote sustainability. Torque rheometry helps identify thermal behaviors and multi-phases in recycled PVC, essential for quality control. The findings emphasize the importance of torque rheometry in ensuring the quality and performance of recycled PVC, especially in plastic pipe formulations.

Source: PVC4Pipes, Belgium, www.pvc4pipes.com / Full [press release](#)

Spotlight on PVC: Day 2 highlights from Plastic Pipes XXI Conference 2023

Conference papers: Significance of PVC pipes in urban farming / The unmatched durability of PVC / Benefits of PVC and CPVC pipes in safely transporting chemicals / PVC could be a viable material for hydrogen transport / PVC-U pipes have service life of over 100 years under optimum extrusion conditions



KWD-globalpipe, 10.11.2023. The momentum for PVC continued Day 2 of the [Plastic Pipes Conference PPXXI](#) in Lake Buena Vista, Florida, USA. Here's what unfolded:

- Tobias Johnsen and Ole Grøndahl Hansen from PVC Information Council Denmark presented a compelling case on "How PVC pipes can contribute to food safety in the world's mega-cities" and highlighted the **significance of PVC in urban farming**, emphasising its durability, weather-resistance, and chemical stability.
- Steven L. Barfuss from Utah State University shared findings from the most comprehensive water main break survey ever conducted across the USA and Canada. The data underscored PVC's growing market share across North America, reaffirming its position as **the material with the lowest break rates**. This trend emphasises PVC's unmatched durability.
- Karin Jacobson from PDS Consulting AB emphasised the **benefits of PVC and CPVC pipes in safely transporting chemicals**, noting their superior corrosion resistance and durability.
- Roland Valk from Kiwa Technology presented findings on the "Leak tightness of PVC fittings with hydrogen." Sponsored by PVC4Pipes, the [study](#) (pdf) delved into the potential of PVC in the transport and distribution of hydrogen gas, a rising energy carrier. Notably, their results indicated that the permeation rates are significantly below safety thresholds, suggesting that **PVC could be a viable material for hydrogen transport** in the future. See more: [Natural gas & hydrogen](#).
- Joaquin Lahoz from Centro de Ensayos, Innovación y Servicios (CEIS) unveiled a study titled "PVC-U pipes: Optimal extrusion conditions for a 100+ year design lifetime," sponsored by PVC4Pipes. Results indicated that an extrusion temperature of 180°C is ideal for achieving a class MRS250. Minor temperature increments further optimize the projected lifespan. This groundbreaking research suggests that, **with the right conditions, PVC-U pipes can sustain their design stress values for over 100 years**, providing invaluable insights for water supply network designers.



Source: PVC4Pipes, Belgium, www.pvc4pipes.com / Full [press release](#)

PVC in focus: Day 3 key takeaways from the Plastic Pipes XXI Conference 2023

Conference papers: Comprehensive analysis of the lifecycle cost benefits of PVC-U pipes / Updated EPD for PVC and PVC-O pipes / In Australia, demand for transparent EPDs is growing



KWD-globalpipe, 10.11.2023. Day 3 of the [Plastic Pipes Conference PPXXI](#) in Florida, USA, provided many insights for the PVC pipe value chain. Check out the summary:

- Vincent Stone, PVC4Pipes Project Leader and Technical/Environmental Affairs Senior Manager at the European Council of Vinyl Manufacturers (ECVM), presented a comprehensive **analysis of the lifecycle cost benefits of PVC-U pipes** in Europe. Stone's presentation aided owners in making informed decisions about material selection. The **findings underscored PVC's cost-effectiveness** across various stages.
- Richard Nichols from the Uni-Bell PVC Pipe Association highlighted the advancements in the **"Updated environmental product declaration (EPD) for PVC and PVC-O pressure pipe and PVC non-pressure pipe."** The 2023 EPD showcases a 20% reduction in electricity consumption, a 66% decrease in water usage, and a 6% reduction in impact categories for a standard 8" DR 18 pipe compared to the 2015 EPD. These improvements, rooted in the latest life cycle assessment (LCA) conducted as per ISO 14040 series standards, reflect advancements in PVC pipe manufacturing and upstream PVC resin production. The updated EPD also evaluates the environmental impacts of gasketed PVC-O pipe for the first time.
- Matthew Hynes from Iplex Pty Limited and Lucy Croker from Vinidex Pty Limited discussed the evolution of Environmental Product Declarations (**EPDs**) for **plastic pipes in Australia**. Recognising the need for clarity, an educational project was initiated to provide a comprehensive understanding of EPDs. As Australia moves towards 'Net Zero', the **demand for transparent EPDs is growing**, highlighting the need for industry collaboration to support sustainable construction.



Source: PVC4Pipes, Belgium, www.pvc4pipes.com / Full [press release](#)