

Solvay at FAKUMA 2018 | Hall B4 Booth #4213

Technyl® 4earth® premium recycled polyamide selected by Kärcher to foster their sustainability roadmap

Lyon, France, Oct. 16, 2018 – Solvay Performance Polyamides announces that leading manufacturer of cleaning technology Kärcher is using Technyl® 4earth® high-quality environmental solution. The premium recycled polyamide becomes henceforth the material of choice for molding spray lances of Kärcher's high-pressure cleaners.

Kärcher is strongly committed to increasing the use of recycled materials in its well-known products. *"Sustainability and environmental protection are firmly rooted in our company philosophy and actions,"* said Daniel Carmine Manocchio, Manager of the group Material Technology at Kärcher's Central Research and Development. The company is one of the first major international OEMs to evaluate and embrace Solvay's Technyl® 4earth® technology. *"After adopting Technyl® 4earth® as a component of our resource-conserving solutions, we have already manufactured more than one million high-pressure spray lances molded using this remarkable recycled polyamide."*

The spray lances must meet a range of demanding requirements including high pressure resistance, hydrolytic stability, very high impact strength, printability and compatibility with cleaning agents.

"After comprehensive testing, we selected a 30 percent glass fiber reinforced Technyl® 4earth® compound. It behaves exactly as comparable virgin PA6.6 both in terms of physical in-use properties and processability, without compromising the superior quality and safety of our equipment," Manocchio added. *"After switching the first production plant completely from virgin Technyl® to Technyl® 4earth® we are now evaluating its further use throughout our extensive portfolio."*

Technyl® 4earth® is a range of PA6.6 engineering plastics born out of the Move4earth® project supported by the European Commission (LIFE+ program). A patented process transforms stable sources of technical fabrics, such as automotive airbag cushions, into prime quality polyamide. Technyl® 4earth® offers properties comparable to those of equivalent virgin PA6.6 and can significantly reduce such environmental impacts as CO2 emissions, water consumption, and use of non-renewable energy.

"We are proud to have such a globally renowned brand manufacturer as Kärcher recognizing the value of Technyl® 4earth®," said Richard Bourdon, Move4earth® Project Director for Solvay. *"The spray lance is a perfect example of the demanding applications we are targeting while exploring new opportunities and partnerships with customers seeking to foster sustainable design and increase the recycled plastic content in their products."*

Technyl® 4earth® is commercially available in various grades with a glass content up to 50 percent. Solvay's proprietary recycling technology ensures both consistent material quality and security of supply to meet fast-growing demand for more sustainable high-performance applications in a wide range of markets, from automotive components to electrical appliances, and consumer and industrial goods.

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Kärcher is the leading provider of cleaning technology worldwide. With high-pressure and ultra-high-pressure cleaners, vacuum cleaners and steam cleaners, vacuum sweepers and scrubber driers, gantry car washes, cleaning agents, dry ice blasting machines, drinking water and waste water treatment systems, water dispensers, a telematics-based fleet management system as well as pumps and watering systems for home and garden, Kärcher offers a wide range of innovative solutions. The family-owned company has over 12,300 employees in 68 countries and more than 110 companies. In 2017, Alfred Kärcher SE & Co. KG achieved a turnover of EUR 2.5 billion, the highest in the company's history. Since its foundation in 1935, Kärcher has registered more than 1,740 patents and industrial designs.

Learn more at www.kaercher.com.

Solvay is an advanced materials and specialty chemicals company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers worldwide in many diverse end markets. Its products are used in planes, cars, batteries, smart and medical devices, as well as in mineral and oil and gas extraction, enhancing efficiency and sustainability. Its lightweighting materials promote cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 26,800 employees in 61 countries. Net sales were €10.1 billion in 2017, with 90% from activities where Solvay ranks among the world's top 3 leaders, resulting in an EBITDA margin of 22%. Solvay SA ([SOLB.BE](#)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](#) - Reuters: [SOLB.BR](#)) and in the United States its shares (SOLVY) are traded through a level-1 ADR program. *Financial figures take into account the announced divestment of Polyamides.*

Learn more about Technyl® 4earth® and the Technyl® brand at www.technyl.com, and follow us on [Twitter](#) / [Facebook](#) / [YouTube](#) / [Instagram](#).

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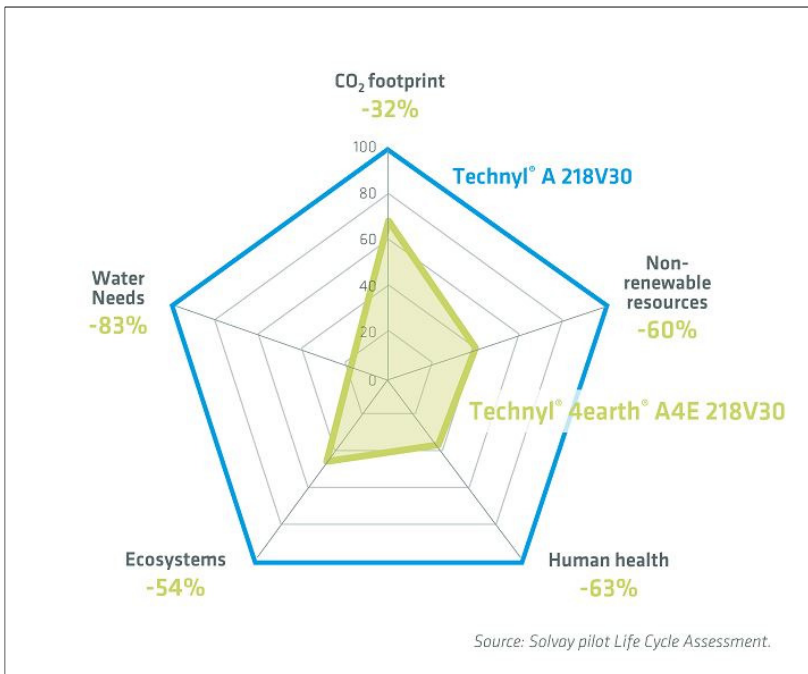
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Kärcher has selected 30 percent glass-filled Technyl® 4earth® A4E 218V30, a high quality PA6.6 recycle compound from Solvay Performance Polyamides for molding lances for high-pressure cleaners.

Photos courtesy of Kärcher.



The cradle-to-gate environment footprint of Technyl® 4earth® is significantly reduced vs. prime Technyl® PA6.6

Diagram: Solvay Performance Polyamides