EU REACH PFAS
Restriction Proposal
BELGIUM - 28 MARCH
Fluoropolymers are critical for a sustainable society

Fluoropolymers are critical components for green mobility, digitalization and energy transition

Renewable energy installations
Semiconductor manufacturing
Components for compact engines in hybrid vehicles
Electric vehicle batteries
Green hydrogen applications
Medical device components
Smart devices

SOLVAY’S PRODUCTS ARE:

→ Synthetic rubbers with outstanding sealing properties critical for semiconductors, automotive and healthcare industries, also used as mechanical seals for pumps, compressors, valves, and more.

→ Resins used as coatings and lubricants offering a protective coat or lining resisting in harsh environments used in automotive and aerospace applications as well as industrial uses.

→ Ionomer key materials for electric storage, fuel cells and electrolyzers.

Fluoropolymers offer unique properties that no other polymers can like temperature resistance, chemical resistance and electric & low friction properties.
Responsible and safe / essentiality
Solvay will actively promote the continued responsible and safe manufacture, use and placement of products which are essential to the European industry and to the decarbonization of the global economy.

Contradiction with EU strategies
Solvay fully supports the EU’s Green Deal and its ambitions on net-zero carbon emission targets, energy transition, green mobility, as well as the EU’s ambitions on digitalization and the EU Chips Act. A restriction would have a significant impact on many different value chains and is in full contradiction with the EU Green Deal objectives as well as with the EU’s ambition for green mobility and digitalisation. Therefore, such critical applications merit a full exemption - or an extended derogation upon evaluation how much time would be needed to develop, industrialize and scale safe and efficient alternatives.

Solvay on PFAS Universal Restriction

Not all PFAS are the same / differentiate fluoropolymers
Solvay supports clear, science-based regulatory measures on PFAS
We strongly believe that the restriction proposal should differentiate between the various types of PFAS. Fluoropolymers & Perfluoropolyethers meet the OECD’s key internationally recognized safety criteria identifying them as polymers of low concern.

Non fluorosurfactant technology
Solvay views safety as an absolute priority and supports clear, science-based regulatory measures on PFAS. That is why our Group is implementing such measures ahead of schedule. We have already phased out fluorosurfactants from a significant part of our manufacturing processes and are advancing on our phase out roadmap toward 2026.
In Europe, Solvay has already pro-actively taken voluntary measures to reduce the impact of PFAS.

**PHASING OUT THE USE OF FLUOROSURFACTANTS**

In June 2022 we announced that by 2026 Solvay will manufacture nearly 100% of its fluoropolymers without the use of fluorosurfactants.

**TECHNICALLY ZERO EMISSIONS of cC6O4**

In April 2022 Solvay announced to invest an additional 40 M€ in Reverse Osmosis and Activated Carbons to achieve nearly 100% reduction of fluorosurfactant (cC6O4) emissions in Spinetta. The Reverse Osmosis plant was completed after the summer 2022, while the Activated Carbon is under construction with startup planned June 2023.

**REMEDIATION OF HISTORICAL LEGACY POLLUTION**

For the remediation of 6 km² around the Spinetta site we allocated 25M€, while we continue the remediation on the Spinetta site (36 M€ invested today and 30 M€ put aside for implementation).
Fluoropolymers Supporting Green Mobility

Thermal & air management systems
- PPA / FKM / PPS / PEEK / PAI

Lighting
- PPS / PESU / PPA

Emissions control
- PPA / PPS / PEEK / PAI / FKM

Transmission
- PPA / PEEK / PTFE / PAI / PTFE / FKM

Structural & semi-structural parts
- Epoxy prepregs

Battery Pack
- MTM® / VTM® / LTM® / HTM®

Epoxy prepregs

Power Electronics
- PPA / PPS / PARA / HPPA

Epoxy prepregs

Battery Cell
- PVDF / LiFSI / TPC

Epoxy prepregs

Thermal management systems
- PPA / FKM / PPS / PEEK / PAI

PPA / PPS / PAI / LCP / FKM / PFPE / PEEK

PPA / PPS / PARA / HPPA

PPA / FKM / PPS / PEEK / PAI

PPA / PPS / PAI
Role of fluoropolymers in enabling EU Chips Act

Semiconductor manufacturing requires innovative materials of the highest purity and quality to enable next-generation electronics with leading-edge technology. High performance and high purity polymers for structural and internal parts cover all stages of manufacturing.