Fluoropolymers

Product Group of Plastics Europe

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Executive Abstract – Fluoropolymer Manufacturing Programme 2.0

In September 2023, fluoropolymer manufacturers in Europe launched the Fluoropolymer Manufacturing Programme (MP 1.0).

Aim of this voluntary, industry-led initiative is to address concerns regarding emissions of non-polymeric PFAS residues from fluoropolymer manufacturing through measurable reduction targets, deployment of state-of-the-art technologies, enhanced transparency, and safe handling across the value chain.

Building on the significant progress achieved under MP 1.0, the Fluoropolymer Manufacturing Programme 2.0 (MP 2.0) expands the Programme with new measures across fluoropolymer manufacturing sites in Europe. While MP 1.0 focused on emissions associated with polymerization aids, MP 2.0 adopts a broader approach, providing a practical framework for managing emissions of all known non-polymeric PFAS associated with the production of fluoropolymers and fluoroelastomers, (FPs), and perfluoropolyethers (PFPEs).

A key innovation of MP 2.0 is the introduction of comprehensive emission metrics covering the full manufacturing process, from the integrated synthesis of precursors, monomers and specialty monomers through to the production of finished FP and PFPE products. This enhanced approach will provide a more complete picture of emissions across integrated production processes. The Programme will support transparency, facilitate continuous improvement, and inform evidence-based policymaking.

With MP 2.0 the members of the Fluoropolymer Manufacturing Programme will:

- Introduce an overall emission-factor target for all known non-polymeric PFAS residues from the combined monomer, fluoropolymer, fluoroelastomer and perfluoropolyether manufacturing process: 0.09% for air and water combined by the end of 2030. Aggregated results will be published to ensure transparency.
- Continue the technology exchange platform to accelerate deployment of best available emission-abatement solutions.
- Establish a dedicated technology exchange platform for analytical techniques to support the development and sharing of analytical methods and best practices.
- Extend the scope of the Safe Handling Guide for value chain users.
- Promote responsible management of PFAS-containing solid waste.
- Commit to continuous engagement with local authorities, supporting site-specific transparency, emission management planning and informed regulatory oversight.

MP 2.0 will directly support EU policy development, including the PFAS restriction process and the potential future fluoropolymer-specific Best Available Techniques Reference Document (BREF) under the Industrial Emissions Directive (IED).

While regulatory measures take time to develop and implement, MP 2.0 offers a timely, science-based framework that delivers measurable emission reductions while generating data and experience to support effective regulatory design.

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About Fluoropolymers Product Group (FPG):
The FPG is part of Plastics Europe, the industry association representing European polymer producers. It operates in accordance with the Plastics Europe governance rules, including Competition Compliance Rules. Plastics Europe covers the EU, plus UK, Norway, Turkey and Switzerland.

About Fluoropolymers:
Fluoropolymers are advanced materials that provide unmatched durability, chemical and thermal resistance, and stability in extreme environments. Their unique set of properties makes them essential in many industries, from healthcare and renewable energy to transportation, aerospace and semiconductors