

Mechanical Recycling - Post-Consumer Recyclate (PCR) Recycling Stewardship Program

Product stewardship means taking appropriate steps across the lifecycle to protect society and our environment by assessing the safety, health and environmental aspects of our products, from R&D, to manufacturing, use, sale, disposal, and recycling of each product.

Dow is committed to evaluating the health and environmental profile of our PCR products. We use a risk-based approach established in our product stewardship management standard to analyze, characterize and manage risks across the life cycle of the product.

Dow upholds these standards through each step of the product lifecycle. For example:

0. Designing for Recyclability

Dow designs to enable recyclability and use of recycled content.

1. Supplier Qualification

Dow works with qualified suppliers to ensure the PCR plastics it uses meet its safety standards. Dow's supplier qualification process includes

- a mechanical performance characterization,
- documentation review, and
- a contaminant analysis of the PCR raw material

2. Toxicology Analysis

Dow conducts targeted and non-targeted toxicology analysis for PCR plastics during raw material qualification and periodically to identify the potential hazards for humans and the environment.



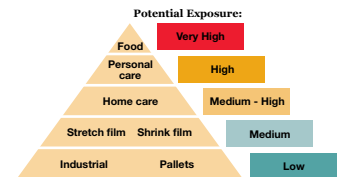
3. Risk Management

Dow uses an array of risk management measures to ensure the safety of its PCR products, including:

- **Sampling frequency** - Dow samples PCR products at a frequency established under a Business Risk Review (BRF) based on the exposure level of the product.
- **Recommended maximum percentage of PCR content** - Dow might recommend a maximum percentage of PCR content for certain products and applications, based on risk assessment results.
- **Contractual controls** - Dow requires its third-party manufacturers and suppliers to comply with certain contractual controls and requirements.
- **Improved recycling capabilities** - By leveraging its materials science expertise, Dow works with its suppliers to continuously improve sorting, washing and recycling capabilities, including through a range of global partnerships.

4. Customer & End-Use

Dow requests and assesses information from customers about applications for PCR products to aid in the responsible and safe use.



5. Global Partnerships

Through innovation and collaboration, Dow will help facilitate the transition to a circular economy using direct action and partnerships. Dow requires 3rd party manufacturers and advocates for its suppliers to adhere to the Operation Clean Sweep® (OCS) program, which is a global initiative to prevent the release of plastic pellets into the environment and keep them within the economy for a more sustainable future.



The **efficiency and effectiveness of mechanical recycling depends on various factors**, including the quality and variability of the input material, the availability of suitable recycling technologies, market demands for recycled products, and the overall infrastructure supporting the recycling process.



Continuous advancements in recycling technologies and improvements in collection and sorting systems are enhancing the mechanical recycling process and its overall sustainability.

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