



Redesigning plastics. For good.

PVC recycling
Compounds and services

ProVinyl

Mastering the loop of the circular economy from end to end

Benvic combines recycling and compounding

As a leading independent compounder, Benvic has over 50 years of experience in PVC applications. The demands of the new circular economy model, where old with new is not magic but it does require a thorough understanding of the material. PVC is a truly versatile material and Benvic has invested in technology that gets involved at the compounding stage, where chemical and physical processes create high quality compounds - transforming heterogeneity and variability into consistency.



***Nota:** In house corresponding process can be associated to other processes on demand, please check you sales representative.

ng expertise, to make valuable new materials for a second-life.

50 years' expertise and unique know-how regarding PVC formulation for all products and how mean integrating first life PVC products into ongoing manufacturing. This integration of ongoing knowledge of chemistry and reprocessing techniques.

decades of work in order to be able to effectively recycle it into second-life products. Benvic building blocks need to be made, and where the know-how is critical for the (re)generation variety into stability and consistency.

post
astes
g*



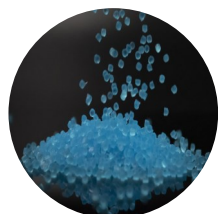
Benvic's compound design is based on the secondary raw material - its type and availability - together with its application and performance. Prototyping and lab testing regarding the impact of secondary raw material is undertaken, where properties are analyzed and the proportion used are assessed.

Compounding



Specific manufacturing needs are anticipated and met - calibrating the right levels of material homogenization and adaptation in order to meet the required specifications in use.

ProVinyl-R



Engineered compounds - where performance needs are matched to the integration of recycled compounds.

ProVinyl-Re



Cost effective material based on high tolerance to maximize the integration of different recycled feedstocks.

Recycling

The PVC based secondary raw material

VinylStream

Initiated from residues of PVC wastes, VinylStream material is produced in-house via various mechanical recycling processes. After selection and a proper process that transforms former parts into powder or pellets, VinylStream can then be re-integrated into a regular compounding process

The evolution of these recycled base PVC compounds can lead to significant new development of secondary raw materials. These are able to be aligned and specified for differing performance criteria or for certification compliance.

As each case is different - depending on applications and feedstocks - please consults your Benvic sales representative for further details.

Handling scraps on demand

If you have post- industrial or post-use polymer wastes and you don't have the right process to readapt these materials into your production lines – no problem!

Benvic can supply the skill sets and can support you to manage such regeneration through processes that are based on micronzation or pellitization.

Benvic's on-demand expertise and services are the perfect solution for integrating these materials.

Regen
services

Circularity on demand

The usual way to include recycled content is to integrate secondary raw material or finished compounds to the standard level that is specified.

However, and in many cases, manufacturers need to integrate post-industrial or post-consumer recycle, or various recycling circumstances, into a tailor-made solution for the specific needs of their customers or consumers.

Benvic can help such manufacturers create and manage specific circularity schemes such as these; selecting and handling wastes, defining the right strategy for their integration in recycling or upcycling and also developing fresh compounds for sampling and for the marketplace.

In this way Benvic both develops and manages recycling and compounding needs together – assisting and assuring success in the new circular economy.

Giving PVC compounds a new life

Compounding

ProVinyl| R

The recycled based PVC compound that maximizes performance

The demand for more environmental-friendly products naturally means the introduction of a higher level of PVC recycle into existing compounds for various applications.

Various regulations, including carbon footprint and increased EPR (Extended Producer Responsibility) meant that recycled based PVC will further increase in use and value.

The primary challenge therefore is to find and create just the right kinds of PVC recycle - based on premium choice feedstocks and containing just the right properties for easy adoption into existing manufacturing systems.

Benvic is more than ready for this challenge: Our formulation and engineering teams are here for your specific needs; ensuring top quality and performance within a recycled based material strategy.

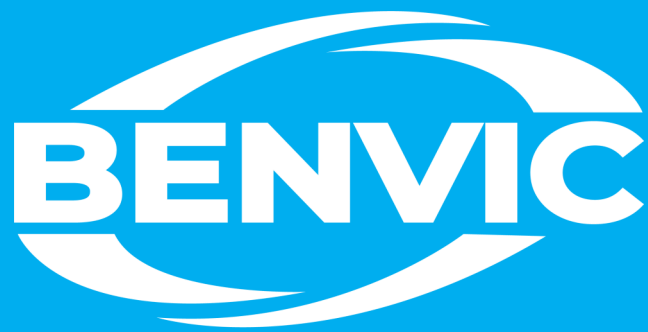
In such case, specific development are managed by our formulation and engineering team to answer to your demands in order to keep the existing performance and ensuring quality with the proper recycled based material strategy.

ProVinyl| Re

The cost effective solution

Recycling can often be seen as a way to cost effective manufacturing when the material properties of products are less specified. When resource management is the primary key in manufacturing, Benvic expertise can also help.

Entry level recycling solution can be provided and managed. Existing off-the-shelf recycle can also be provided in a range of standard colors and specifications.



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BY GREEN ENERGY