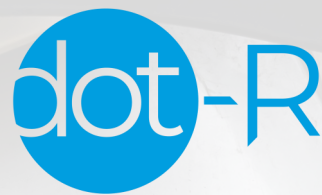




Redesigning plastics. For good.

Recycled engineered
compounds



Converting our PP range to recycled content

The circular economy calls for a re-engineering of materials in order to reduce increasing pressures on the environment.

Optimization of these resources leads to the re-use of existing material after the end of its product life and service. With the support of recycling technology, new horizons for these second-life materials and products are emerging. Polymer compounding expertise from Benvic is vital to this process.

For many years Benvic has developed detailed expertise in recycling its PVC-based compounds. The Benvic vision and mission is to redesign polymer compounds, using all the features and benefits of recycled materials. Indeed, new regulations are helping to drive new ways to introduce these products, mainly based on product life cycle assessments.

Aside from Benvic's Dot-Core range, for conventional compounds, and Dot-Flex for thermoplastics elastomers, Benvic's Dot-R range is founded on recycled polymer resins in order to offer materials compliant with the circular economy. Dot-R materials also complement the existing Xtended product families.

Redesign
for
environment
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Dot-R PP is a complement of our DotCore PP product family for polypropylene compounds based on recycled content, from 20% to 100% . Our DNA is not just offering off the shelves products but be able to integrate what's could be the right contribution to end product.

Catalogue P/N	Type	Density [g/cm ³]	Modulus [Mpa]	Tensile Strength [Mpa]	Elongation [%]	Melt Flow index 230° C/2.16kg
PP RH 15 92 GF3	Glass filled	1.00	3600	58	3.3	15
PP RH 30 00 GF2	Glass filled	1.13	6000	75	2.8	9
PP RH 40 00 GF2	Glass filled	1.22	8400	90	2.8	9
PP RH20 92 TR2	Talc filled	1.05	2300	30	>10	8
PP RH30 00 TR3	Talc filled	1.15	3000	29	-	15
PP RH40 00 TR3	Talc filled	1.26	3600	28	-	13

How to order*

P	P	R	H				
Type				Filler amount in %	Color code	Filler type	Extra
RH Homopolymer recycled					00 Natural 92 Black	TC Tact/CC CC calcium carbonate GF Glass fiber	HT Thermal resistance FR Flame retardant

*Nota: Depending options offered, all configurations are not available. Please consults your closest BENVIC sales representative for checking product availability.

A new approach to compounding with recycle

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Integrating new material is not just a matter of substituting wholesale recycle for virgin polymer. The ideal concept of circularity might encourage this notion but practically speaking volume feedstocks are not yet available for the applications that may be needed. In addition, these applications are constantly changing, some polymers are more versatile than others or less easily available. This new market place is fluid and new ways of using recycling technology can be a game changer.

In many cases, compounding science itself is that game changer. By selecting the right feedstock and by scientifically improving its characteristics, compounding can drastically improve the performance of second-life polymers. Then it is possible to move forward and target various technical applications where the cost, performance and environmental impacts can be raised to levels of true excellence. This is one of the leading themes of Benvic's Dot-R range.









dot-R-PET

Benvic Dot-R PET is designed from high quality post consumer PET materials. The advantage of this high-value recycle depends on the availability of homogenous volume feedstock.

In Development
Sampling available *

Benvic's compounding science is able to boost the performance level of PET recycle - enhancing various properties and creating second-life compounds that are able to challenge other thermoplastics in various applications- consumer, electric and electronics, and automotive. In this case, Benvic engineers are able to tailor make customer materials that are based on 100% of recycled material content.

Our Dot-R PET compound provides you with a unique, high-performing 100% recycled material: Experience it now!

Main features				
	High quality post consumer recycled	Designed for enhancing thermomechanical performances	Substitute to other technopolymers	Colourable
				
	Flame retardant**	UV resistant	Process ability ease	Food contact on demand

Applications



* Product under development without guarantee of mass production availability

** Option under development



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