

We are the first certified manufacturer and processor of PCR materials for coextrusion blowing in the Czech Republic. Our materials are completely recyclable and demonstrably have a significantly lower impact on the environment. To produce RECYCLY material, we use raw materials from both renewable sources and raw materials from the process of sorting and collecting waste from households and companies. The concept is based on the use of post consumer and postindustrial recycled material within the number of plastics used in packaging materials. The RECYCLY material is defined by the reduction of the polymer and the supply of recycled components and additives, which improve the primarily environmental profile of the packaging due to lower CO<sub>2</sub> emissions.



The quality of raw materials and the production process as such are regularly inspected and certified by an independent auditor. Technological discipline is given by the most modern machinery, dedicated to the production, distribution, and processing of RECYCLY material.



RECYCLY material is offered in 3 possible colors:

RECYCLY NATURAL, RECYCLY WHITE and RECYCLY GRAY

In terms of composition and properties, the color variants of the RECYCLY material are always the same composition and recipe. The only distinguishing element is the PCR raw material used, which affects the resulting color of the product:

**1. RECYCLY NATURAL** is specific with a slightly milky color, as close as possible to the virgin material in a transparent design without added dyes. Products made of RECYCLY NATURAL material are characterized by a slightly transparent wall with a slightly milky color. The material can be painted with pastel and metallic colors, the difference in color is negligible compared to the virgin material.

**2. RECYCLY WHITE** is a typical white color of products. Color is achieved by additive mixing of individual components and the resulting spectrum of color radiation is then perceived by the human eye of shades of white.

**3. RECYCLY GRAY** is a material in the color of various intensities of light gray with possible tones according to the color spectrum - the effect of additive color mixing. The material in the GRAY variant can be tinted in pastel colors, but it is never the color equivalent of pure virgin material, especially in its intensity.

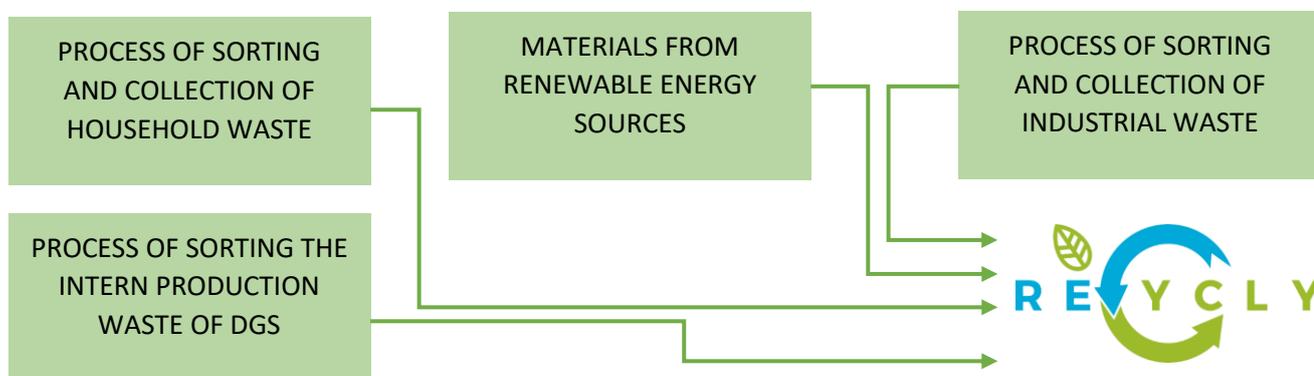
**Light barrier:** both color variants (WHITE and GRAY) create a certain light barrier within the packaging, thus protecting the contents to a certain extent without the need to solve other added light barriers.

**Color variation:** the range of color intensity in all RECYCLY variants varies in the range of 30% of the rate of light absorption by the surface of the final product at a stable temperature of 20 ° C. The effect is due to the specificity of the raw material used - PCR / PIR granules. The possible difference in color or the resulting tone is not due to qualitative fluctuations in production, but to the natural possible color range of the input recycled raw material.

**Odor:** products made of RECYCLY material do not show the side effect common to standard PCR / PIR-based materials on the market, so the specific odor. This side effect is completely suppressed due to the uniqueness of the production process and the additives used in the RECYCLY product.



### PRODUCTION PROCESS



### CHARACTERISTICS OF RECYCLY:

- the products can be colored
- the products are smart in the subsequent recycling
- increased barrier to the passage of gas molecules through the material
- matt printable surface
- recyclable together with PE

### UNIQUE RECEIPT BASED ON FOLLOWING COMPONENTS:

- copolymer with bimodal structure
- post customer- / postindustrial recycle components
- additives
- master batch colorings



---

It is the customer's responsibility to inspect and test our products to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe, and legal use, processing, and handling of our products. No liability can be accepted in respect of the use of any DGS product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.



DGS plast s.r.o., Loučka 137, 76325 Újezd u Valašských Klobouk  
[www.dgsplast.cz](http://www.dgsplast.cz)