



## Project Information Sheet

### Use of 100 per cent Post-Consumer Recycled Polyethylene Terephthalate to produce packaging for edible oils (RE-PACK EDOILS)

<b>Programme area:</b>	Recycled plastics in food packaging
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<b>Partners:</b>	
<b>Website:</b>	<a href="http://www.re-packproject.it">www.re-packproject.it</a>
<b>Benefits:</b>	Replacing virgin PET with post-consumer recycled PET in the packaging of edible oils, with consequent reduction of emissions and use of non-renewable resources
<b>Keywords:</b>	Plastic recycling, food packaging, edible oil
<b>Sector:</b>	Recycling, Food and Drink
<b>Type of solution</b>	Product
<b>Duration:</b>	10/11/2011 – 09/11/2014
<b>Budget:</b>	€ 1.168.864 (EU contribution: 50%)
<b>Contract number:</b>	ECO/10/277355

#### Summary

Aim of RE-PACK EDOILS project is to produce and introduce on the market packaging for edible oils made up of 100% recycled plastics.

In the 3 years of activity, the project will lead to the production of preforms and bottles for food oils completely made up of post-consumer recycled polyethylene terephthalate (PCR-PET), and to their introduction on the market after a careful evaluation of their functional properties and their suitability for food contact.

The idea is perfectly in line with the recent updating of the European legislation (EC Regulation 282/2008) that introduced the possibility of using post-consumer recycled plastic materials also for the packaging of food products. The sustainability is a responsibility from which the companies cannot escape and that repays also in economic terms, so the company has decided to invest in eco-innovation, in a sector, as is the packaging one, that plays a crucial role in determining the overall environmental impact of the food products.

The use of recycled plastic proves to be highly advantageous from an environmental point of view, reducing the quantity of material to be sent to the rubbish dump and the dependency on non-renewable sources.

#### Achieved results

The aim of the RE-PACK EDOILS project was achieved.

In particular, the completeness of the project led to:

- Use of **post-consumer recycled PET** for the production of preforms and bottles in different colours to be used in the packaging of edible oils, in particular seed oils and enriched seed oils.
- Define work protocols to select recycled PET which could **assure good processability during packaging production**.
- **Extend the potential application of recycled PET**, to be re-introduced in the economic cycle, in the form of high-quality products (preforms and bottles for the food packaging).



- Analysing the relations between the PET used, its processability and the functional properties of the products obtained.
- Define work protocols that could **assure the safety of the packaging made up to 100% in recycled PET.**
- Introduce in European Market preforms in different colours produced **with post-consumer recycled PET to be used in the packaging of edible oils**, in particular seed oils.
- **Reduce the environmental impact of edible oil packaging** (emissions and use of non-renewable resources) **by using recycled PET instead of virgin PET**, obtained from fossil sources.
- **Reduce the production costs of preforms through the design of an optimized and lighter preform and using R-PET up to 100% in weight** as raw material.