

## **PROCEDURE FOR OBTAINING A RECYCLED MATERIAL FROM MULTILAYER PET CONTAINERS AND RECYCLED MATERIAL OBTAINED THEREFROM**

### **DESCRIPTION OF INVENTION**

The object of the invention is to obtain a recycled material from multilayer plastic packaging waste containing a high PET content in order to help reduce the use of chemical recycling and to enable its recovery by mechanical recycling without degradation.

### **BUSINESS APPLICATIONS**

The new recycled material obtained through the proposed technology will be applicable to any product or sector currently using polyolefin type polymers (PE, PP and their copolymers), which are considered commodities, i.e. highly consumed in the market. This new recycled material will not compete with recycled PET, but with other common and highly demanded recycled polyolefin plastics.

### **TECHNICAL ADVANTAGES AND BUSINESS BENEFITS**

The advantage of this new recycled material is based on including up to 75% multilayer PET in the formulation to achieve a cheaper material (0.4 € / kg) compared to current recycled polyolefins (0.7 € / kg) but improving its thermal and mechanical properties (thanks to the content of PET in its composition, considered a technical polymer). This gives it an added value compared to other multilayer PET recycling technologies.

### **STATE OF TECHNOLOGY DEVELOPMENT**

The present work has been developed at laboratory level and fully characterised for imminent industrial testing.

### **INDUSTRIAL PROPERTY RIGHTS**

NATIONAL PATENT

### **RELATED IMAGES**





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