

Request for industrial partners

(September 9th, 2019)

Project title: Post-Consumer PVC boosted with Additives

Acronym: PoCoPAdd

Project ID	
Type	ICON
Period	2 years
Starting date	January 2020
Subsidy percentage	According to SBO- and O&O regulations
Catalisti contact	Isabelle Monnaie

Project description

Introduction

The recycling potentials of post-consumer PVC are to a large extent determined by differences in the degree of contamination, i.e. the degree to which PVC is mixed with other materials when collected and the differences in the composition of the collected PVC material itself. As for the latter, it has to be taken into account that a PVC product does not consist of pure PVC but of PVC compounds which contain different quantities of additives such as plasticizers, fillers, stabilizers. The degree of contamination in turn determines the achievable quality of recyclates, often yielding a low-quality recyclate. To upgrade recyclates to the desired property profile, additives are mandatory. However, additives available on the market for post-consumer PVC are unable to increase the performance of post-consumer PVC up to the level of virgin PVC while at the same time the dose-response mechanism in a complex and varying matrix is unknown. This limits the use of post-consumer PVC in PVC applications.

Goal

The goal is to investigate and develop new additives that improve both the processing of mechanically recycled PVC and its final product properties. Through understanding of the physicochemical interaction between the additives and the PVC matrix, new insights in the relationship between additives types and dosage to PVC processability behavior and final material properties will be gathered. This will enable a smarter use of additives while

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increasing the amount of recycle in current materials production and potential new high-performance products.

Expertise

To complement the consortium, Catalisti is searching for (non-limitative):

- Additional industrial end-users interested to boost mechanical recycling of PVC (outside the applications already involved in the project, being floor covering and profile extrusion for the window and door business)

Partners that wish to participate in Catalisti-supported projects, are required to be Member of Catalisti. For more information on membership and membership fees please contact Isabelle Monnaie (imonnaie@catalisti.be).

How to reply to this request

Please send an **email** at the latest on **September 23rd** to imonnaie@catalisti.be with lgarciagonzalez@catalisti.be in CC, and **briefly describe your interest and potential contribution** to the project. Based on all applications, the current industrial partners will determine together with Catalisti which partners can join the consortium. After submission of your application, you can be contacted by telephone to further elaborate your offer. The decision will be communicated the latest on September 27th.

The first consortium meeting is scheduled on Monday September 30th, 14.00-16.30. Attendance of at least one representative of your company is required in case you are selected to join the consortium.

Please note that the initiating project partners have opted to cooperate with an external consultancy firm for the preparation and writing of the complete project proposal. This decision will be applicable to all joining partners.

Please contact Isabelle Monnaie (imonnaie@catalisti.be, +32 (0) 471 506 833) or Linsey Garcia-Gonzalez (lgarciagonzalez@catalisti.be, +32 (0) 479 450 426) if you have questions concerning this Request for Partners.

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