

COALINE

NEW PULTRUSION PROCES FOR COMPOSITE PROFILES

COALINE DEVELOPS NEW PULTRUSION PROCESS WITH COATED PROFILES

The European Project COALINE

Develops a new manufacturing pultrusion process for improved coated composites profiles, free of VOCs and small particles emissions, with a reduced labor and process cost by:

Advanced Mould Design

New Sensing Technology

Microwave Aided Curing

Saves time

no sanding, painting or spraying

Reduces costs

Innovative manufacturing system

Respects the environment

Avoids VOCs emissions and small particles

For further information please visit our website

www.coaline.eu

or contact AIMPLAS:

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PREFORMING & COATING

The reinforced fibers are pulled into the heated mold being preformed. The gel coat or the primer is injected into the mold



DIE



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CURING WITH NEW MICROWAVE SYSTEM



MICROWAVE



The microwave curing system allows saving more than 50% of the curing time using susceptors to improve the resin and the gelcoat microwave absorption.

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THE SENSING SYSTEM WITH DATA IN REAL TIME

With the new monitored sensing system it is possible to know in “real time” the curing degree of the resin and the gelcoat in each stage of the process.

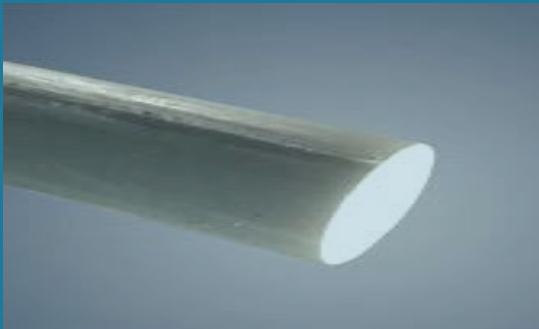


SENSORS



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PROFILES CUT OUT WITH THE DESIRED FINISHING



PROFILE



The profiles are cut out and ready to be used without any other finishing treatment and maintaining its mechanical properties.

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NEW PRIMER AND ADHESIVES FORMULATION

New range of primers and adhesives that allows bonding and debonding on demand for composites pultruded profiles with other materials



ADHESIVES



COALINE

END USERS PROJECT: ACCIONA & ALKÈ

ACCIONA



ALKÈ



The end users of the Coaline Project will use this new manufacturing system in construction and in the structure of electrical vehicles.



PROJECT PARTNERS



**RESEARCH INSTITUTIONS
AND WELL-KNOWN
COMPANIES WITH A
LARGE EXPERIENCE
INTEGRATE THIS
INNOVATIVE PROJECT**



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