



REACT is a three-year research and innovation project funded by the European Commission under the Horizon 2020 programme.

The project addresses the management of waste acrylic textiles coming from outdoor awnings and furnishings. A crucial issue is the analysis, removal, and management of finishing substances that affect the secondary raw material purity. The project further implements a mechanical recycling process to obtain second life fibres and fabrics, and performance testing for their best application.

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RECYCLING OF ACRYLIC

TEXTILE WASTE FROM

OUTDOOR AWNINGS

AND FURNISHINGS

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IT IS ESTIMATED THAT EVERY YEAR, IN EUROPE, ABOUT 7'700 TONNES OF ACRYLIC TEXTILE WASTE ARE DISPOSED OF BY LANDFILL OR INCINERATION



90% of acrylic fibres - almost 2 million tonnes per year - are used in the production of clothing, outdoor furniture, boat covers and awnings, thanks to their unmatched performance (combination of weather and UV-light resistance, and mechanical strength).

Our goal is to identify processes to treat and recycle acrylic textile waste ecologically and economically. We aim to enable European textile producers to improve sustainability and reduce environmental and health risks by disposing of less waste, recovering hazardous chemicals, and using smaller amounts of traditional chemicals.

OUR PROCESS AND IMPACT

