



ISTANBUL PROJECT ACADEMY



MARMARA ÜNİVERSİTESİ
İNNOVASYON VE TEKNOLOJİ
TRANSFER UYGULAMA VE
ARAŞTIRMA MERKEZİ





Horizon Europe Cluster 6:

Food, Bioeconomy, Natural Resources,
Agriculture and Environment Brokerage Event





Project Idea / Field of Expertise

Fiber Engineering: Sorting, recycling and valorization of consumer waste from polyester/cotton/viscose/elastane blends

Organisation Name:

**TEXTILE MATERIALS & MACHINERY LABS (TEMAG)
ISTANBUL TECHNICAL UNIVERSITY**



TEMAG LAB

Textile Materials & Machinery Research Labs

Addressed Topic(s) & Call(s):

HORIZON-CL6-2024-CircBio-01-2

HORIZON-CL6-2024-CircBio-02-1-two-stage



TEXTILE MATERIALS & MACHINERY LABS (TEMAG)



- TEMAG facility is an interdisciplinary playground for engineered fabrics, material and mechanical design
- Focusing on novel fiber applications in the fields of filtration & separation, energy, composites and biomedical
- Supporting +20 graduate students
- An authority in the research of fibers in Turkey



Projects
TUBITAK
Istanbul Development Agency



National and
international
publications



Our expertise: Fiber Engineering

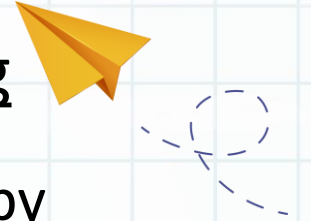
Lab- and pilot-scale production



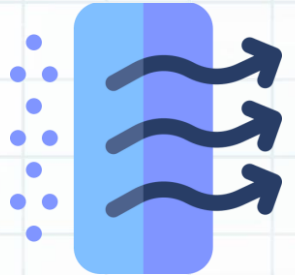
- Nanofiber spinning
 - Centrifugal spinning
 - Solution blowing
 - Electrospinning
- Microfiber production
 - Melt spinning
 - Wet spinning
 - Melt-blowing
- Cast film extrusion
- Compounding



Characterization and testing



- Scanning electron microscopy
- Energy dispersive X-ray analysis
- UV-VIS DRS spectroscopy
- Automated air filter tester
- Contact angle goniometer
- Air permeability tester
- Universal tensile tester
- Battery analyzer
- Standardized fiber, yarn & fabric characterization systems



Contact details



Contact person	Aybeniz SEYHAN
Organisation	TEMAG Laboratory, ITU
Address	ITU Gumussuyu Campus, Inonu Caddesi, No: 65 Gumussuyu (34437) Beyoglu, ISTANBUL - TURKEY
Phone	+90 531 3435925
E-mail	seyhanay@itu.edu.tr
B2Match profile	Aybeniz Seyhan
LinkedIn/Twitter	https://www.linkedin.com/in/aybeniz-seyhan/



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THANK YOU...



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