

Mechanical and Chemical Res Lab

Mission

The aim of the **Mechanical and Chemical Resistance Laboratory** is to support requesters in studying and solving problems related to the mechanical characterization of materials and to their resistance when exposed to chemical, thermal and weathering treatments.

In the laboratory we perform different mechanical tests, immersions in harsh chemicals up to high temperatures and pressures, and weathering ageings.

The purpose of the laboratory is:

- to have a thorough mechanical investigation of the materials, including the generation of data for design engineering;
- to get information about the actual performance of the materials in the real application environments by properly simulating ageing conditions.



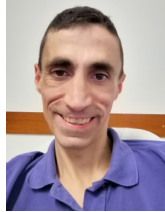

The customers of the laboratory are both CTD (Customer Technical Development) and R&I (Research and Innovation).


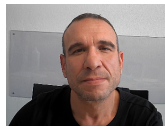

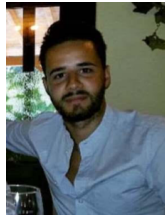

To guarantee the validity of the results, the laboratory participates in quarterly global cross-check with other Solvay labs on tensile, flexural and impact tests.

Techniques

- **Quasi static mechanical tests (tensile, flexural, compression, ...)**
- **Impact tests**
- **Long term mechanical tests (Creep, Flex Life)**
- **Abrasion (Taber Test)**
- **Immersion tests**
- **Permeation tests**
- **Thermal and environmental ageing**
- **Weathering**
- **Environmental Stress Cracking**

Team

	Name	Role	location
	GIRALDI, Luigi	Team Leader	B109-016
	CAVALLO, Giuliana	Researcher	B109-022
	CITTERIO, Simone	Technician	B109-05
	CRISSETTI, Lazzaro	Technician	B109-05

	GRANDI, Andrea	Technician	B109-05
	OSANA, Franco	Technician	B109-021
	RIZZO, Sonia	Technician	B109-019
	SARTORI, Davide	Technician	B109-019
	URZIA, Andrea	Technician	B109-019

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