

Research & Services | Composite Materials and Polymers Laboratory (Yissum)**code:** 34-2007-1778[Gad Marom](#), HUJI, Faculty of Science, The Casali Center for Applied Chemistry**Categories**

Composite materials, polymers, nanocomposites, biomedical composites

Objective/function

- The laboratory focuses on research and development relating to composite materials and hybrids, nanocomposites, polymers and biomedical composites

Research provided

Research and development projects related to the above, encompassing

- Microstructure-property relation
- Morphology of bulk crystallinity, transcrystallinity and confined nanostructures
- Fracture mechanisms and failure modes
- Mechanical and physical property testing and evaluation
- Calorimetric, thermal, thermomechanical and thermophysical properties
- Biomedical composites for soft tissue prostheses
- Intercalated carbon nanoparticle based composites of conductive polymers

Advantages

- The laboratory is staffed by highly knowledgeable, skilled researchers using state-of-the-art technologies and equipment

Client record

- Israeli plastics and composites industries
- Contractors related to the defence industry

Available equipment

- A broad range of equipment for
- Polymer characterization, including electron microscopy and X-ray diffraction equipment
- Composite material manufacturing: Filament winding machines, DSM Research 15 ml Micro-Compounder and presses
- Mechanical and physical testing of composites: A range of screw driven and hydraulic universal testers is available
- Access to characterization laboratories

Staff


- Gad Marom, PhD

- Research engineer
- Graduate students

Contact

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Contact for more information:

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