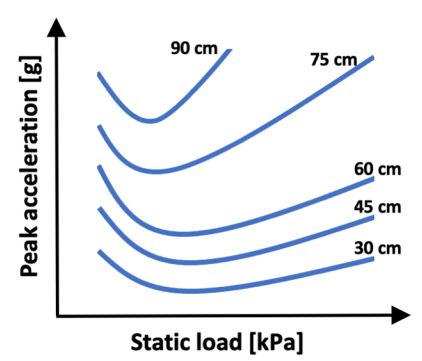


Our research team has proven experience in the leading and co-working in industrial R&D projects in the field of polymer technology. We have strong expertise in the development of polymeric foam products, including morphological and mechanical characterization, material selection and shock-absorption optimization. Develop your foams with us!

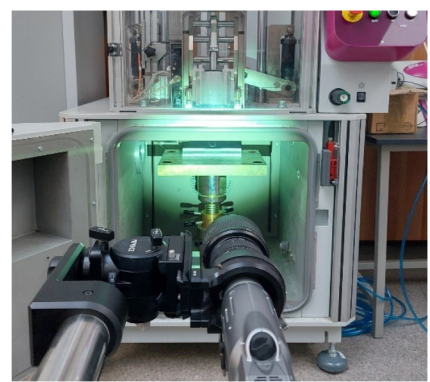
DESIGN OF PACKAGING MATERIALS:

- ✓ **Cushion curve generation**
 - Determination of cushioning curves by drop-weight testing
 - Estimation of cushion curves for other foam thicknesses
- ✓ **Cushioning design support and product optimization**
 - Material selection for cost reduction
 - Optimal contact area determination



SHOCK-ABSORPTION CHARACTERIZATION:

- ✓ **Impact testing**
 - Custom-developed impactor geometries
 - Impact velocity range: 0-20 m/s
- ✓ **Deformation analysis with high-speed camera**
 - Maximum frame rate: 230.000 fps
 - Max. resolution: 640x480
- ✓ **Layer optimization in multilayer structures**
- ✓ **Cyclic compression tests**



MORPHOLOGICAL ANALYSIS:

- ✓ **Cell-structural characterization and failure analysis by scanning electron microscopy**
- ✓ **Computer tomography**
- ✓ **DSC, DMA and TGA measurements**
- ✓ **AFM**

