

# POLYMER TECHNOLOGIES

Beginning from the design of polymer systems, the field covers the design and investigation of compounding and processing technologies, additive systems, and structure property relationships. We are available in the areas of simulation, consulting and expert advice, as well as in the areas of material test validation and complaint handling support.

## COMPETENCIES

- Examination of the knowledge of polymers, polymer systems, detection of causes of failure
- Modelling of injection molding processes
- Mechanical and thermomechanical testing of polymer structures
- Testing and qualification of coatings, paints, painted and coated polymer products
- Glues, adhesives
- Natural polymers (wood, paper industry) and biodegradable polymers
- Polymer processing, processing machines



## SERVICES

- Elimination and solution of problems in production
- Examination of polymers, plastics, investigation of the causes of errors
- Design and evaluation of materials and recipes, assistance in handling complaints
- Simulation of injection molding processes
- Polymer processing process evaluation consulting
- Polymer technology related education



## INSTRUMENTS

- INSTRON 5566 universal material testing equipment
- Charpy Implant (IGV)
- SHORE A, D, O, 00 hardness tester
- DSC (Setaram 131 EVO) (Differential Scanning Calorimetry)
- Bruker Tensor27 FTIR (Fourier Transform Infrared Spectroscopy)
- Laser foam testing equipment
- DMA (Metravib DMA25) (Differential Mechanical Analyser)



## REFERENCES

- AD Plastik Kft.
- Sanko Gosei UK Ltd. Hungarian Branch Office
- SEWS Autókábel Magyarország Kft.
- Robert Bosch Kft.
- FrieslandCampina Magyarország Kft.
- SMR Automotive Mirror Technology Hungary Bt.
- Joyson Safety Systems Kft.
- Johnson Electric Hungary Kft.
- Continental Automotive Hungary Kft.