

## **RheoPower Software Package version 4.1**

TomCoat launches new RheoPower software version 4.1 including RheoAnalyzer and RheoDeveloper programs. Package is as default delivered with wide used Microsoft SQL Server Express, but new RheoPower Lite is also available without database architecture for smaller amount of analyses and simulations. New versions offer improved level for accuracy of analyzes due to developments in solving ill-posed problems of field. A lot of work has been used to make interface easy to use.

### **RheoPower Software Package**

The RheoPower rheological and chemometrics software family is the fastest way to analyse and to simulate polymer structure and viscoelastic flows. It accelerates your material development and design of polymerization, extrusion, injection moulding processes down to microstructure analyzes. By RheoPower you do not get only MWD (Molecular Weight Distribution), but modelled different type polymer flows even impossible to measure as wide viscosity, relaxation modulus and spectrum, elongation and transient viscoelastic curves. Package offers easy integration to 3rd party instruments, systems and LIMS (Laboratory Information Management System). New measuring methods of polymer flows have been included to the packages.

### **What is background**

Control Theory principle was used from ancient times to the present modern technology, but not earlier used in rheology. Principle is well described in Mathematics. Our linear viscoelastic model starts from the dimensions of statistical chain tube. Another introduced Melt Calibration with RED (Rheologically Effective Distribution) has similarities with the chromatography elugram as GPC/SEC. The background was published recently at prestigious scientific journals.

### **Our Mission**

For decades it was hoped that linear relations would be found between polymer structure and properties. Our mission was to develop new polymer technologies for manufacturing industry based on the actual relations between structure and properties. Another target was to get easy to use software package for analyses and simulations. Finally, the long period puzzle has got the solution.

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