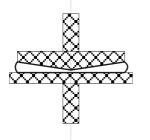


Questions

What is Molecule Weight Distribution (MWD) of material under process, polymerisation or mixing? How I can get lower shear viscosity, but still melt strength must be at high level? If I add 10% of low fraction polymer, what happens? What is viscosity at zero shear rate? Relaxation Spectrum? Is there any Long Chain Branching (LCB) or crosslinks?

Many similar questions and needs are found in daily manufacturing and research.

Measure viscosity



We have to measure viscosity of material. Easiest this is done by a dynamic cone-plate rheometer to get a complex viscosity flow curve as a function of frequency. In principle there is also possible to use other devices and methods.

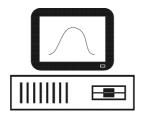
You can do measurements at different temperatures to get wider data range. Save data on a floppy or other media in ASCII or other form convertible for RheoPower.

Import data

Import complex viscosity flow curve as a function of frequency. On the importing window is ready by a single buttons click procedures for some rheometers' data.

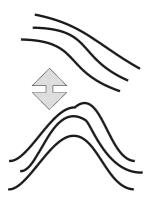
You can also import GPC and other MWD data for crosscomputations and developments on the databases.

MWD by RheoAnalyzer



In few seconds you get partition of MWD from imported data. As wider is data range as more you get MWD directly. This can be enough level in on-line quality inspections, where initial sets of material were ready.

You can continue by deeper analyse, which levels take few minutes computation time to get more accurate results or detect possible minor structures.

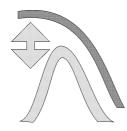


Join different data

A lot of outputs can be done already by a single measurement, but you can also make measurements at different temperatures to get wider data range giving more accurate results.

With new material type you need some calibration information. And as more you have priori information as less there is needed degrees of Freedom during computation.

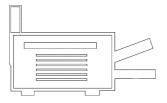
What-if analyses by RheoDeveloper



You find the power of databases during making material developments. By accurate relation to the structure you can simulate polymerisation or mixing at low cost on your PC.

RheoPower offers platform for your further development of new manufacturing or research procedures.

Outputs



Near everything simultaneously; wide viscosity fit, MWD, relaxation modulus and spectrum. Moreover you can get other fractions and Long Chain Branching (LCB) or crosslinks.

The main goal is give as good answers as possible to your questions, which serve you in your work.

