

SOLUTION VISCOSITY of polyamides according to DIN EN ISO 307, of polyester and other polymers according to DIN EN ISO 1628-2, -5 and ISO 1628-4

TASK

Would you like to know the influence of your processes on the polymer properties or optimize your processing steps? Are you interested in whether a material tends to degrade under certain environmental influences? Would you like to check the polymer properties of your pellets and thus your suppliers' compliance with specifications?

SOLUTION

The viscosity number provides information related to the chain length of the macromolecules. The method (Fig. 1) is standardized for common plastics: - DIN EN ISO 307 for polyamides - DIN EN ISO 1628-2, -5 and ISO 1628-4 for polyesters and other polymers such as polycarbonate and polybutylene terephthalate. Analytik Service Obernburg has decades of experience and a high level of expertise in this field, which is also proven by very good interlaboratory test results.

Industries

Automotive suppliers
Chemical fibers
Plastics processors

Analysis goals

Optimization of quality assurance
Failure analysis

Materials

Fibers Plastic granules
Injection-molded parts

Analysis method

DIN EN ISO 307
DIN EN ISO 1628 2, -5
und ISO 1628-4

Similar questions

Plastics analysis
Viscosity measurements



Suitable sample preparation is a very important part of this service. Thanks to a high degree of automation (Fig. 2), we are able to prepare the polymer solutions for the measurement very precisely.

We offer viscosity number determination in a wide range of solvents. Our standard repertoire includes formic acid, m-cresol, dichloroacetic acid, sulphuric acid, hexafluoroisopropanol, chloroform, tetrachloroethane and the solvent mixtures phenol/1,1,2,2-tetrachloroethane and phenol/1-2-dichlorobenzene. Do you need the viscosity number in a different solvent / solvent mixture? Please do not hesitate to contact us.

ADVANTAGE

Our qualified employees work around the clock (24/7) in this analysis area. This enables us to react very quickly in very urgent cases. We can even provide results within 24 hours. Talk to us, we will look for the best solution. You take care of your processes, we take care of the necessary analyses.






FIG. 1: FULLY AUTOMATIC SOLUTION VISCOSITY MEASURING SYSTEM; ALLOWS FAST PROCESSING OF LARGE SAMPLE SERIES.



FIG. 2: AUTOMATED SAMPLE PREPARATION SYSTEM; POLYMER CONCENTRATIONS OF 0.005 G/CM³ (0.5 %) AND 0.01 G/CM³ (1 %) ARE COMMON.
