DIN EN ISO 1628-5:2015-05 (E)

Plastics - Determination of the viscosity of polymers in dilute soluti on using capillary viscometers - Part 5: Thermoplastic polyester (TP) homopolymers and copolymers (ISO 1628-5:1998)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Principle 5

4 Solvents 5
4.1 Phenol/1,2-dichlorobenzene 5
4.2 Phenol/1,1,2,2-tetrachloroethane 5
4.3 o-Chlorophenol, analytical grade 5
4.4 m-Cresol, meeting the following specifications 5
4.5 Dichloroacetic acid, analytical grade 5
4.6 Phenol/2,4,6-trichlorophenol 5
4.7 Storage of the solvents 5

5 Apparatus 6

6 Solvent and solution 6
6.1 Selection of the solvent 6
6.2 Determination of inorganic materials or other additives in the sample 7
6.2.1 Determination of the content of inorganic materials 7
6.2.2 Determination of the content of other additives 7
6.3 Sample 7
6.4 Preparation of solution 7
6.4.1 Procedure A 7
6.4.2 Procedure B 8

7 Procedure 9
7.1 Preparatory operations 9
7.2 Measurement of flow time 9

8 Expression of results 9

9 Test report 10

Annex A (informative) Round-robin testing 11

A.1 General 11
A.2 Repeatability and reproducibility 11
A.3 Interconversion of the viscosity numbers determined in different solvents 11
A.3.1 Viscosity number of PET 11
A.3.2 Viscosity number of PBT 12