

ISO 9080:2012-10 (E)

Plastics piping and ducting systems - Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation

Contents		Page
Foreword		iv
Introduction		v
0.1 General		v
0.2 Principles		v
0.3 Use of the methods		vi
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Acquisition of test data		3
4.1 Test conditions		3
4.2 Distribution of internal pressure levels and time ranges		3
5 Procedure		3
5.1 Data gathering and analysis		3
5.2 Extrapolation time factors for polyolefins (semi-crystalline polymers)		6
5.3 Extrapolation time factors for glassy, amorphous vinyl chloride based polymers		7
5.4 Extrapolation time factors for polymers other than those covered in 5.2 and 5.3		7
6 Example of calculation, software validation		7
7 Test report		8
Annex A (normative) Methods of analysis		9
Annex B (normative) Automatic knee detection		13
Annex C (informative) Application of SEM to stress rupture data of a semi-crystalline polymer		14
Annex D (informative) Application of SEM to stress rupture data of a vinyl chloride based polymer		22
Bibliography		29