ISO 16422-2:2024-02 (E)

Pipes and joints made of oriented unplasticized poly(vinyl chloride) (PVC-O) for the conveyance of water under pressure - Part 2: Pipes

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Symbols **4**

5 Material **5**
5.1 General 5
5.2 Density 5
5.3 MRS class 6
5.4 Orientation factor 6

6 General characteristics **6**
6.1 Appearance 6
6.2 Colour 6
6.3 Opacity 6
6.4 Classification of pipes 7
6.4.1 Classification 7
6.4.2 Calculation of wall thickness 7

7 Geometrical characteristics **7**
7.1 Measurement of dimensions 7
7.2 Length of pipes 7
7.3 Nominal outside diameters and wall thicknesses 7
7.4 Pipes with integral sockets with elastomeric sealing ring type 9
7.5 Plain ends 11

8 Selection of pipes **11**
8.1 Selection of nominal pressure and pipe series S for water up to and including 25 °C 11
8.2 Determination of the allowable operating pressure for water up to 45 °C 11

9 Mechanical characteristics **11**
9.1 Resistance to hydrostatic pressure 11
9.1.1 General 11
9.1.2 Pipes 12
9.1.3 Pipes with integral sockets 12
9.2 Impact strength 12
9.3 Ring stiffness 13

10 Physical characteristics **13**

11 Sealing rings **13**

12 Marking **14**
12.1 General 14
12.2 Minimum required marking 14
12.3 Additional marking 14

Annex A (normative) **Establishment of the pipe material classification** **15**

Annex B (normative) **Minimum depth of engagement of sockets** **18**
Annex C (normative) **Temperature derating factor** **21**
Annex D (informative) **Calculation of negative pressure capability of pipes** **22**
Annex E (normative) **Determination of axial and circumferential orientation factor** **23**
Bibliography **25**