ISO 14531-3:2010-12 (E)

Plastic s pipes and fittings - Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels - Metric series - Specifications - Part 3: Fittings for mechanical jointing (including PE-X/metal transitions)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 2

3 Terms and definitions 3

4 Materials 3
4.1 General 3
4.2 Strength 4
4.3 Chemical resistance 4
4.4 Lubricants 5
4.5 Reprocessable (re-work) material 5

5 Fittings 5
5.1 Design 5
5.2 Appearance 6
5.3 Dimensions 7
5.4 Mechanical performance 7
5.5 Validation of fitting design and design pressure DPF 7
5.6 Performance requirements for fittings in conformity with ISO 10838 9

6 Elastomeric seals 9

7 Marking 9
7.1 Legibility 9
7.2 Damage 9
7.3 Minimum marking requirements 10
7.4 Labels 10

Annex A (normative) Resistance to gas constituents 11

Annex B (normative) Method of test of the integrity of a fitting after an external blow 12

Annex C (normative) Constant-strain thermal-cycling test 14

Annex D (informative) Validation of fitting design pressure DPF at 20 °C (plastic bodied fittings) 16

Annex E (normative) Validation of fitting design pressure DPF at 20 °C (metal bodied fittings) 18