

# DIN EN 14125:2025-05 (E)

## Thermoplastic and flexible metal pipework for underground installation at petrol filling stations

---

| <b>Contents</b>         |  | <b>Page</b> |
|-------------------------|--|-------------|
| European foreword ..... |  | 4           |
| Introduction .....      |  | 5           |
| 1                       | Scope .....  | 6           |
| 2                       | Normative references .....   | 6           |
| 3                       | Terms and definitions .....  | 8           |
| 4                       | Classes and dimensions .....   | 9           |
| 4.1                     | Classes of pipework .....  | 9           |
| 4.2                     | Fittings .....   | 10          |
| 4.3                     | Dimensional tolerances .....   | 10          |
| 5                       | Physical properties .....  | 10          |
| 5.1                     | Pressure .....   | 10          |
| 5.1.1                   | General .....  | 10          |
| 5.1.2                   | Hydrostatic pressure .....   | 10          |
| 5.1.3                   | Vacuum .....   | 11          |
| 5.1.4                   | Cyclic pressure .....  | 11          |
| 5.2                     | Estimated working life .....   | 11          |
| 5.3                     | Temperature .....  | 11          |
| 5.4                     | Mechanical tests .....   | 12          |
| 5.4.1                   | Crush test .....   | 12          |
| 5.4.2                   | Bend radius test .....   | 12          |
| 5.4.3                   | Impact test .....  | 12          |
| 5.4.4                   | Puncture test .....  | 12          |
| 5.4.5                   | Pull test .....  | 12          |
| 5.5                     | Fuel tests .....   | 13          |
| 5.5.1                   | Fuel compatibility .....   | 13          |
| 5.5.2                   | Fuel permeability .....  | 13          |
| 5.5.3                   | Swelling .....   | 14          |
| 5.6                     | Static electricity .....   | 14          |
| 5.6.1                   | General .....  | 14          |
| 5.6.2                   | Requirements for insulating plastic pipe systems .....                             | 14          |
| 5.6.3                   | Requirements for plastic pipe systems with conductive or dissipative linings ..... | 14          |
| 5.7                     | Weathering .....   | 14          |
| 5.8                     | Corrosion resistance .....   | 14          |
| 5.9                     | Summary of tests .....   | 15          |
| 6                       | Production control .....   | 16          |
| 7                       | Testing .....  | 16          |
| 7.1                     | General items referring to the test methods .....                                  | 16          |
| 7.1.1                   | Selection of test samples from a product range .....                               | 16          |
| 7.1.2                   | Number of samples .....  | 16          |
| 7.1.3                   | Tests following conditioning .....   | 16          |
| 7.1.4                   | Combined tests .....   | 17          |
| 7.1.5                   | Procedure for retesting .....  | 17          |
| 7.1.6                   | Test fuels .....   | 18          |

|        |   |    |
|--------|---|----|
| 7.2    | Test methods .....                                | 18 |
| 7.2.1  | Hydrostatic pressure .....                        | 18 |
| 7.2.2  | Vacuum test .....                                 | 19 |
| 7.2.3  | Cyclic pressure test .....                        | 19 |
| 7.2.4  | Crush test .....                                  | 20 |
| 7.2.5  | Bend radius test .....                            | 20 |
| 7.2.6  | Impact test .....                                 | 21 |
| 7.2.7  | Puncture resistance .....                         | 21 |
| 7.2.8  | Fuel compatibility test .....                     | 21 |
| 7.2.9  | Fuel permeability test .....                      | 22 |
| 7.2.10 | Longitudinal swelling .....                       | 23 |
| 7.2.11 | Pull-out test .....                               | 23 |
| 7.2.12 | Fitting pull-out test .....                       | 24 |
| 8      | Markings on pipe and fittings .....               | 24 |
| 9      | Manuals .....                                     | 26 |
| 9.1    | Product manual .....                              | 26 |
| 9.2    | Installation manuals .....                        | 26 |
| 10     | Records .....                                     | 26 |
|        | Annex A (informative) A-deviations .....          | 27 |
|        | Annex B (informative) Static electricity .....    | 29 |
|        | Annex C (informative) Environmental aspects ..... | 33 |
|        | Bibliography .....                                | 36 |