

DIN 8078:2008-09 (E)

Polypropylene (PP) pipes - PP-H, PP-B, PP-R, PP-RCT - General quality requirements and testing

| Contents | | Page |
|-----------------------|---|-------------|
| Foreword | | 3 |
| 1 | Scope | 4 |
| 2 | Normative references | 4 |
| 3 | Material | 4 |
| 3.1 | General | 4 |
| 3.2 | Proof of long-term hydrostatic strength | 5 |
| 4 | Requirements | 10 |
| 4.1 | Delivery condition | 10 |
| 4.2 | Surface condition | 10 |
| 4.3 | Dimensions and tolerances | 10 |
| 4.4 | Long-term hydrostatic strength | 10 |
| 4.5 | Impact strength test behaviour (inspection by attributes) | 10 |
| 4.6 | Changes after heat treatment | 10 |
| 5 | Testing | 11 |
| 5.1 | Surface condition | 11 |
| 5.2 | Dimensions | 11 |
| 5.3 | Out-of-roundness (ovality) | 11 |
| 5.4 | Long-term hydrostatic strength test | 12 |
| 5.5 | Impact strength test (inspection by attributes) | 13 |
| 5.6 | Heat reversion | 14 |
| 5.7 | Inspection documents | 14 |
| Annex A (informative) | Explanatory notes | 15 |
| Bibliography | | 17 |
| Figures | Figure 1 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-H pipes | 6 |
| | Figure 2 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-B pipes | 7 |
| | Figure 3 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-R pipes | 8 |
| | Figure 4 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-RCT pipes | 9 |
| | Figure 5 -- Test pieces for long-term hydrostatic test | 12 |
| | Figure 6 -- Bar-shaped test piece for impact strength test | 13 |
| Tables | Table 1 -- Coefficients for calculating the reference characteristic curves | 5 |
| | Table 2 -- Test conditions for the long-term hydrostatic test | 11 |

| | |
|--|-----------|
| Table 3 -- Impact strength test pieces | 14 |
| Table 4 -- Test conditions for heat treatment | 14 |
| Table A.1 -- Guideline values for some properties of PP materials | 16 |