DIN 8078:2007-05 (E)

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

Contents

Page

Foreword 3

1 Scope 3

2 Normative references 3

3 Material 4
3.1 General 4
3.2 Proof of long-term hydrostatic strength 4

4 Requirements 9
4.1 Delivery condition 9
4.2 Surface condition 9
4.3 Dimensions and tolerances 9
4.4 Long-term hydrostatic strength 9
4.5 Impact strength test behaviour (inspection by attributes) 9
4.6 Changes after heat treatment 9

5 Testing 10
5.1 Surface condition 10
5.2 Dimensions 10
5.3 Out-of-roundness (ovality) 10
5.4 Long-term hydrostatic strength test 11
5.5 Impact strength test (inspection by attributes) 12
5.6 Heat reversion 13
5.7 Inspection documents 13

Annex A (informative) Explanatory notes 14

Bibliography 16

Figures Figure 1 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-H pipes 5

Figure 2 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-B pipes 6

Figure 3 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-R pipes 7

Figure 4 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-RCT pipes 8

Figure 5 -- Test pieces for long-term hydrostatic test 11

Figure 6 -- Bar-shaped test piece for impact strength test 12

Tables Table 1 -- Coefficients for calculating the reference characteristic curves 4

Table 2 -- Test conditions for the long-term hydrostatic test 10

Table 3 -- Impact strength test pieces 13

Table 4 -- Test conditions for heat treatment 13

Table A.1 -- Guideline values for some properties of PP materials 15