

DIN 16833:2009-09 (E)

Pipes of raised-temperature-resistance polyethylene (PE-RT) - PE-RT Type I and PE-RT Type II - General quality requirements, testing

Contents	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Material (moulding material)	5
4.1 General	5
4.2 Demonstrating long-term hydrostatic strength	5
5 Requirements	7
5.1 Form supplied	7
5.2 Surface quality	8
5.3 Dimensions and tolerances	8
5.4 Strength characteristics determined by long-term hydrostatic strength testing	8
5.5 Demonstrating thermal stability by means of long-term hydrostatic strength testing	8
5.6 Heat reversion	8
6 Testing	9
6.1 Surface quality	9
6.2 Dimensions	9
6.3 Out-of-roundness	9
6.4 Strength characteristics determined by long-term hydrostatic strength testing	9
6.5 Heat reversion	10
6.6 Inspection documents	10
Annex A (informative) Explanatory notes	11
Bibliography	13
Figures Figure 1 -- Reference lines for long-term hydrostatic strength (time-to-failure curves) for pipes of polyethylene of raised temperature resistance PE-RT type I	6
Figure 2 -- Reference lines for long-term hydrostatic strength (time-to-failure curves) for pipes of polyethylene of raised temperature resistance PE-RT type II	7
Figure 3 -- Test piece for long-term hydrostatic strength test	9
Tables Table 1 -- Test conditions for long-term hydrostatic strength testing	8
Table 2 -- Thermal stability demonstrated by means of long-term hydrostatic strength testing	8
Table 3 -- Test conditions for heat reversion test	10
Table A.1 -- PE-RT properties (guideline values)	12