

ISO 18489:2015-09 (E)

Polyethylene (PE) materials for piping systems - Determination of resistance to slow crack growth under cyclic loading - Cracked Round Bar test method

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	3
5 Apparatus	3
5.1 Test machine	3
5.1.1 Loading system	3
5.1.2 Load-cycle frequency	4
5.1.3 Grips	4
5.1.4 Temperature chamber	4
5.2 Microscope	4
5.3 Notching apparatus	4
6 Test specimen	4
6.1 Specimen geometry and dimensions	4
6.2 Test specimen preparation	5
6.3 Specimen notching	5
6.4 Specimen conditioning	6
7 Test procedure	6
7.1 Measurement of specimen dimensions	6
7.2 Specimen mounting	6
7.3 Test atmosphere	6
7.4 Calculation of test load	6
7.5 Load application	7
7.6 Notch depth measurement	7
8 Data treatment	7
9 Test report	9
Annex A (informative) Comparison of different test specimen diameters	10
Bibliography	11