DIN EN 1007-7:2010-12 (E)

Advanced technical ceramics - Ceramic composites - Me thods of test for reinforcements - Part 7: Determination of the distribution of tensile strength and of tensile strain to failure of filaments within a multifilament tow at high temperature

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 5

4 Symbols and abbreviations 7

5 Principle 7

6 Significance and use 8

7 Apparatus 8
7.1 Test machine 8
7.2 Load train 8
7.3 Adhesive 8
7.4 Test chamber 9
7.5 Set-up for heating 9
7.6 Temperature measurement 9
7.7 Data recording system 9

8 Test procedure 9
8.1 Test specimens 9
8.2 Test specimen preparation 10
8.3 Number of test specimens 12
8.4 Test Procedure 13
8.5 Calculation of results 17

Annex A (informative) Derivation of the Young's modulus of the hot part of the tow 25

Bibliography 26