

DIN EN ISO 19630:2021-09 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods of test for reinforcements - Determination of tensile properties of filaments at ambient temperature (ISO 19630:2017)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms, definitions and symbols	5
4	Principle	7
5	Apparatus	7
6	Test specimens	7
7	Test specimen preparation	7
8	Number of test specimens	9
9	Test procedure	5
9.1	Displacement rate	9
9.2	Determination of the gauge length	9
9.3	Determination of the initial cross-section area	9
9.4	Testing technique	9
9.4.1	General	9
9.4.2	Load cell	9
9.4.3	Test specimen mounting	9
9.4.4	Measurements	10
9.4.5	Test validity	10
10	Calculation of results	10
10.1	Tensile strength	10
10.1.1	Determination of maximum tensile force	10
10.1.2	Calculation of tensile strength	10
10.2	Calculation of the load train compliance, C_l	10
10.3	Strain	11
10.4	Young modulus	12
10.5	Fracture strain	12
11	Test report	13
Bibliography		14