ISO 21304-2:2021 (E)

Plastics — Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Preparation of test specimens

4.1 Treatment of the material before moulding
4.2 Compression moulding

5 Conditioning of test specimens

6 Determination of properties

Annex A (normative) Method for determining the melt volume-flow rate of PE-UHMW materials

A.1 Overview
A.2 Apparatus
A.3 Test sample
A.4 Procedure
A.5 Calculation of results
A.6 Precision
A.7 Test report

Annex B (normative) Method for determining the elongational stress of PE-UHMW moulding materials

B.1 Overview
B.2 Apparatus
B.3 Compression moulding of sheet
B.4 Procedure
B.4.1 Test specimens (see Figure B.3)
B.4.1.1 Measurement of cross-section
B.4.2 Determination
B.5 Calculation of results
B.6 Precision
B.7 Test report

Annex C (normative) Method for determining the Charpy double-notched impact strength of PE-UHMW moulding material

C.1 Overview
C.2 Principle
C.3 Apparatus
C.4 Test specimens
C.5 Procedure
C.6 Calculation of results
C.7 Precision
C.8 Test report

Page count: 20