

# 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