DIN EN ISO 15527:2022-05 (E)

Plastics - Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) - Requirements and test methods (ISO 15527:2022)

Contents

Page

European foreword 3

Foreword 4

1 Scope 5

2 Normative references 5

3 Termsanddefinitions 5

4 Material 5

5 Requirements 6
5.1 Appearance 6
5.2 Dimensional tolerances 6
5.2.1 Thickness 6
5.2.2 Length and width 6
5.2.3 Rectangularity 6
5.3 Properties 7
5.3.1 Physical properties 7
5.3.2 Physiological behaviour 7

6 Test methods 7
6.1 Test specimens 7
6.1.1 Preparation of test specimens 7
6.1.2 Conditioning 8
6.1.3 Testing 9
6.2 Delivery condition 9
6.3 Appearance 9
6.4 Dimensions 9
6.4.1 Thickness, h 9
6.4.2 Length, l, and width, b 9
6.4.3 Rectangularity 9
6.5 Density 9
6.6 Determination of abrasion properties 9
6.7 Tensile stress at yield, y, and tensile strain at yield, y 9
6.8 Modulus of elasticity in tension, Et 9
6.9 Impact strength of notched specimens 10
6.9.1 Charpy impact strength of double-notched specimens 10
6.9.2 Charpy impact strength of single-notched specimens, acN 10
6.10 Melt mass-flow rate (MFR) 10

7 Designationandorderspecification 10

8 Marking 10

Annex A (normative) Requirements for rectangularity 11

Annex B (normative) Determination of abrasion properties 12

Annex C (informative) Example of apparatus for the determination of abrasion properties 14

Bibliography 15