

DIN EN ISO 15527:2019-03 (E)

Plastics - Compression-moulded sheets of polyethylene (PE-UHMW, PE-HD) - Requirements and test methods (ISO 15527:2018)

Contents	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	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, σ_y , and tensile strain at yield, ϵ_y	9
6.8 Modulus of elasticity in tension, E_t	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, a_{cN}	10
6.10 Melt mass-flow rate (MFR)	10
7 Designation	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