

# DIN EN ISO 15527:2022-05 (E)

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

---

<b>Contents</b>		<b>Page</b>
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, $\sigma_y$ , and tensile strain at yield, $\epsilon_y$ .....	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, acN .....	10
6.10	Melt mass-flow rate (MFR) .....	10
7	Designation and order specification .....	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