

# DIN EN 13655:2025-11 (E)

## Plastics - Thermoplastic mulch films recoverable after use, for use in agriculture and horticulture

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Types and use .....	8
5	Materials .....	8
6	Durability .....	9
7	Requirements .....	9
7.1	General requirements .....	9
7.2	Requirement for appearance .....	14
8	Test methods .....	14
8.1	Thickness .....	14
8.2	Width .....	14
8.3	Film length .....	14
8.4	Tensile characteristics .....	15
8.5	Impact resistance .....	15
8.5.1	General .....	15
8.5.2	Flat area .....	15
8.5.3	Fold area .....	15
8.6	Total luminous transmittance (transparent films) .....	16
8.7	Solar radiation in PAR and NIR region .....	16
8.7.1	Principle .....	16
8.7.2	Apparatus .....	16
8.7.3	Procedure .....	17
8.7.4	Expression of results .....	17
8.8	Solar reflectance .....	17
8.9	Relative light transmission .....	17
8.10	Resistance to artificial weathering .....	17
8.10.1	Principle .....	17
8.10.2	Exposure to xenon-arc lamps .....	17
8.10.3	Procedure .....	18
8.10.4	Calculation and expression of results .....	18
9	Roll acceptance, storage and handling .....	18
9.1	Delivery checking .....	18
9.2	Storage and handling of rolls .....	18
10	Designation .....	18
11	Marking .....	19
11.1	Generalities .....	19
11.2	Marking of the film .....	19
11.3	Marking on the packaging or label .....	20

12	Instructions for storage, installation and use of mulch films .....	20
13	Design for mechanical recycling and end of life of mulch films .....	21
14	Removal and collection instructions of used mulch films .....	22
15	Functions and factors of degradability of mulch films .....	22
	Annex A (informative) Exposure to other light sources .....	23
	Annex B (informative) Numerical correlation between durations of mulching films exposed to artificial weathering and natural exposure .....	27
	Annex C (normative) Determination of solar reflectance .....	30
	Annex D (normative) Determination of the relative light transmission .....	32
	Annex E (informative) Guidance main functions of mulch films factors influencing degradability ....	33
	Bibliography .....	34