

# DIN EN 17098-1:2025-10 (E)

## Plastics - Barrier films for agricultural and horticultural soil disinfection by fumigation - Part 1: Specifications for barrier films

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Classification of films by service life .....	9
5	Material and permeability to fumigants .....	9
5.1	General .....	9
5.2	Determination of the film permeability .....	10
5.3	Recyclability and recycled content .....	10
6	Requirements .....	11
6.1	General requirements .....	11
6.2	Requirement for appearance .....	12
6.3	Optional characteristics .....	12
7	Test methods .....	12
7.1	Determination of the thickness .....	12
7.2	Determination of the width .....	12
7.3	Determination of the roll length .....	13
7.4	Determining tensile properties .....	13
7.5	Determination of the weathering resistance (for class 2 films only) .....	13
7.5.1	Principle .....	13
7.5.2	Exposure method .....	14
7.5.3	Procedure .....	14
7.5.4	Calculation and expression of results .....	14
7.6	Determination of the peel strength .....	14
7.6.1	General .....	14
7.6.2	Principle .....	14
7.6.3	Apparatus .....	14
7.6.4	Specimens .....	15
7.6.5	Procedure .....	15
7.6.6	Expression of results .....	16
7.6.7	Precision .....	17
7.6.8	Test report .....	17
7.7	Determining impact resistance .....	17
7.7.1	General .....	17
7.7.2	Impact test on flat area .....	17
7.7.3	Impact test on fold area .....	17
7.8	Determining relative light transmission .....	18
7.8.1	Principle .....	18
7.8.2	Apparatus .....	18
7.8.3	Procedure .....	18
7.8.4	Expression of results .....	19

<b>8</b>	<b>Roll acceptance, storage and handling .....</b>	<b>19</b>
<b>8.1</b>	<b>Delivery checking .....</b>	<b>19</b>
<b>8.2</b>	<b>Storage and handling of rolls .....</b>	<b>19</b>
<b>9</b>	<b>Designation of barrier films .....</b>	<b>19</b>
<b>10</b>	<b>Marking .....</b>	<b>20</b>
<b>10.1</b>	<b>General .....</b>	<b>20</b>
<b>10.2</b>	<b>Marking of the film .....</b>	<b>20</b>
<b>10.3</b>	<b>Marking on the packaging or label .....</b>	<b>21</b>
<b>11</b>	<b>Installation instructions and conditions for use .....</b>	<b>22</b>
<b>12</b>	<b>Design for recycling of barrier films used for fumigation .....</b>	<b>22</b>
<b>13</b>	<b>Removal and collection instructions of used barrier films .....</b>	<b>23</b>
	<b>Annex A (informative) Exposure to other light sources .....</b>	<b>24</b>
	<b>Annex B (informative) Determination of the puncture resistance .....</b>	<b>27</b>
	<b>Bibliography .....</b>	<b>30</b>