

Indian Standard.: IS17216:2019 (PCD 12 (11567) C2)

Title: Polyethylene mulch films for agriculture and horticulture — Specification

NAME OF THE COMMENTATOR/ORGANIZATION: **SHAILDIP WAGH - Essen Multipack Ltd. Rajkot, Gujarat.**

Sl. No.	Clause/Sub-clause/Para/Table/Fig. No. commented	Commentator/Organization/Abbreviation	Type of Comments	Justification	Proposed Change												
(1)	(2)	(3)	(4)	(5)	(6)												
1	Clause 5.5 & Annex D- 3, Table 5 Duration of Exposure	EML	Technical	<p>Plastic mulch films with expected service life of 3 months & 6 months shall be removed as it is of no use and supports soil infertility and pollution in Agriculture land. The life of mulch films shall always be more than life of crop for which mulching film is used. The vegetable crops are getting harvested up to / more than 6 months from the date of plantation.</p> <p>The size of 25 microns thickness shall be added as it is most popular and suitable for vegetable crops with service life of 9 months. Secondly 40 microns shall be removed as it is not in demand.</p> <p>The basis of selection of mulch film shall be service life and not the thickness.</p>	<p>5.5 Service Life –</p> <p>The minimum service life of mulch films shall be fixed as below –</p> <table border="1"> <thead> <tr> <th>Thickness in Microns</th> <th>Service life in months</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>9</td> </tr> <tr> <td>30</td> <td>12</td> </tr> <tr> <td>50</td> <td>15</td> </tr> <tr> <td>75</td> <td>18</td> </tr> <tr> <td>100</td> <td>24</td> </tr> </tbody> </table> <p>Table 5 (Clause D-3)</p> <p>Mentioned below</p>	Thickness in Microns	Service life in months	25	9	30	12	50	15	75	18	100	24
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Table 5 Duration of Exposure

(Clause D-3)

Indian Solar Radiant Exposure (KLy)	Duration of Exposure for an Expected Lifetime in Natural Environment (hr.)				
	9 months	12 months	15 months	18 months	24 months
(1)	(2)	(3)	(4)	(5)	(6)
160	1375	1834	2292	3668	5502