

PILLING PHOTO STANDARDS⁺

Photographic Standards for Evaluating Pilling according to ISO/EN/SN 12'945-2

Textiles – To determine the fluffing and pilling tendency on a textile's surface.

Part 2: modified Martindale – Procedure.

article 991

Degree of pilling, wovens only



An objective evaluation of the pilling tendency of woven cloth and knitted fabric is a broad requirement of the textile industry.

To evaluate the pilling tendency in accordance with SN EN ISO 12'945-2 a photo standard can be used. Such photo standards have been developed by the EMPA in St. Gallen, Switzerland. The complete set consists of 6 series (3 for woven and 3 for knitted fabrics).

Each photo standard consists of a series of 4 comparable photographs. Each comparable photograph shows the boundary between 2 marks (mark 4-5, 3-4, 2-3, 1-2). The surface condition of each test sample is judged against a photo standard, it can then be decided if the test sample is better, equal, or worse than the photo standard, resulting in a pilling mark.

Marking system

Mark 5 = no or very little pilling
 Mark 4 = light pilling formation
 Mark 3 = moderate pilling formation
 Mark 2 = distinct pilling formation
 Mark 1 = strong pilling formation
 (Half marks are allowed)

article 992

Degree of pilling, knits only



article 990

(article 991+992)
 Degree of pilling,
 wovens and knits

Each photograph is fixed to a nonreflecting plastic disc and is protected by a slightly raised rim.