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Criteria for the award of Green Product Mark

Textiles, Shoes and Bags



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47 **1 Foreword**

48 The work of selecting and developing criteria for the award of Green Product Mark is carried out
49 through Global 2 PfG-E Technical Committees (PTC) convened by TÜV Rheinland.

50 Interested parties participate in the selection and development of criteria for the award of Green
51 Product Mark through either PTC membership or stakeholder consultation mechanism.

52 Criteria for the award of Green Product Mark are drafted in accordance with the rules given in following
53 standards and guides:

54

55 · ISO/IEC Directives, Part 1 and Part 2

56 · ISO/IEC Guide 21, Part 1 and Part 2

57 · ISO Guide 64

58 · ISO Guide 82

59 · ISO 14024

60 · US EPA Guidelines for Environmental Performance Standards and Ecolabels for Use in
61 Federal Procurement

62 · ISEAL Code of Good Practice for Setting Social and Environmental Standards

63

64 Attention is drawn to the possibility that some of the elements of this document may be the subject of
65 patent rights. TÜV Rheinland shall not be held responsible for identifying any or all such patent rights.

66 This document was developed using a multi-stakeholder approach involving experts from multiple
67 stakeholder groups including but not limited to consumers, government, industry, labour, non-
68 governmental organizations (NGOs), and service, support, research, academics. Although efforts were
69 made to ensure balanced participation of all the stakeholder groups, a full and equitable balance of
70 stakeholders was constrained by various factors, including the availability of resources and the need
71 for English language skills.

72

73 **2 Introduction**

74 Product environmental labels are claims which indicate the environmental aspects of a product and
75 provide information about a product in terms of its overall environmental character, a specified
76 environmental aspect, or any number of aspects. Green Product Mark is a voluntary environmental
77 labelling scheme operating in accordance with ISO 14020 *Environmental labels and declarations –*
78 *General principles* and ISO 14024 *Environmental labels and declarations – Type I environmental*
79 *labelling – Principles and procedures*. Green Product Mark has been developed in accordance with
80 ISO/IEC 17067 *Conformity assessment – Fundamentals of product certification and guidelines for*
81 *product certification schemes*. Certification activities under Green Product Mark scheme shall be
82 performed in accordance with ISO/IEC 17065 *Conformity assessment – Requirements for bodies*
83 *certifying products, processes and services*.

84

85 Through the communication of verifiable and accurate information on environmental aspects of
86 products, Green Product Mark aims to encourage the demand for and supply of those products that
87 cause less stress on the environment, thereby stimulating the potential for market-driven continuous
88 environmental improvement.

89

90 Green Product Mark certification scheme is owned by TÜV Rheinland, a leading international technical
91 service provider who have been developing solutions to ensure the safety, quality and economic
92 efficiency of the interaction between man, technology and the environment.

93

94 This document is intended to convey clear and unambiguous requirements to be fulfilled for products
95 to get awarded with Green Product Mark.

96 **2.1 Scope**

97 This document lays out prerequisites, product environmental criteria and product function
98 characteristics that Textiles, Shoes and Bags shall comply with, in order to get awarded with Green
99 Product Mark.

100 All products which demonstrate compliance with relevant prerequisites, product environmental criteria
101 and product function characteristics set forth in this document are entitled to be awarded Green
102 Product Mark.

103

104 **3 Normative references**

105 The following documents, in whole or in part, are normatively referenced in this document and are
106 indispensable for its application. For dated references, only the edition cited applies. For undated
107 references, the latest edition of the referenced document (including any amendments) applies.

- 108 · SA 8000 Social Accountability
- 109 · ISO 14040, Environmental management -- Life cycle assessment – Principles and framework
- 110 · ISO 14044, Environmental management – Life cycle assessment – Requirements and
111 guidelines
- 112 · Product Environmental Footprint (PEF) Guide
- 113 · Directive 2001/95/EC General Product Safety Directive
- 114 · ISO/TS 14067, Greenhouse gases — Carbon footprint of products — Requirements and
115 guidelines for quantification
- 116 · ISO 14021, Environmental labels and declarations—Self-declared environmental claims (Type
117 II environmental labelling)
- 118 · ISO 14044: 2006 Environmental management, Life cycle assessment
- 119 · Regulation (EC) No 1907/2006 (REACH)
- 120 · Regulation (EU) 2019/1021 (POP)
- 121 · Regulation (EC) No 1278/2012 (CLP)
- 122 · Directive 2005/20/EC and amendments on Packaging and Packaging waste
- 123 · Chemicals Prohibition Ordinance (ChemVerbotsV - Chemikalienverbotsverordnung)
- 124 · AfPS GS 2019-01 on polycyclic aromatic hydrocarbons
- 125 · 2 PfG S 0151 - Textiles, clothing, shoes and leather goods

126

127 **4 Terms and definitions**

128 For the purpose of this document, the following terms and definitions apply.

129 **4.1 Green Product Mark**

130 A voluntary environmental labelling program owned by TÜV Rheinland to indicate the overall
131 environmental preferability of a product within a particular product category based on life cycle
132 considerations and contribute to a reduction in the environmental impacts associated with products.

133 **4.2 Prerequisites**

134 Preconditions that a product shall comply with to be awarded Green Product Mark, which in principle
135 consist of two pillars: legislative/regulatory requirements that the product shall meet in order to access
136 target market; social compliance requirements prescribed to the site where the product has been
137 manufactured.

138 **4.3 Product environmental criteria**

139 Environmental requirements that the products shall meet in order to be awarded an environmental
140 label.¹

141 **4.4 Product function characteristics**

142 Attribute or characteristic in the performance and use of a product. In the context of environmental
143 labelling, fitness for purpose implies that a product satisfies health, safety and consumer performance
144 needs.²

145 **5 Prerequisites**

146 **5.1 Social compliance**

147 The social compliance of brand owner, manufacturer and production site shall be maintained with all
148 statutory and regulatory requirements for the jurisdiction in which the manufacturing operations are
149 located.

150 Methodology for assessing and demonstrating compliance:

151 The Brand owner, manufacturer and the factory/third-party producer shall

- 152 · Fulfil the requirements of SMETA or BSCI by providing a documented proof of SMETA or
153 BSCI audit report conducted at production facility of Green Mark certified products; or
- 154 · Fulfil the requirements of SA8000 by providing a valid SA8000 certificate issued by a SAAS-
155 accredited certification body or a COC audit report issued by TÜV Rheinland; or
- 156 · Fulfil the requirements of RBA by providing a documented proof of RBA VAP audit report
157 conducted at production facilities of Green Mark certified products; or
- 158 · Fulfil the requirements of ICTI by providing a valid ICTI certificate issued by a ICTI
159 accredited audit firm; or
- 160 · Fulfil the requirements of SLCP by providing a documented proof of SLCP audit report by a
161 SLCP accredited and APSCA registered audit firm

162 The documented proof/report shall be a maximal of 12 months old at the time of application for Green
163 Product Mark certification.

164

¹ SOURCE: ISO 14024: 1999, definition 3.4

² SOURCE: ISO 14024: 1999, definition 3.5

165 **6 Product environmental criteria**

166 **6.1 Protection of human health and environment**

167 Compliance shall be maintained with safety requirements based on 2 PfG S 0151.

168 For selected, by TÜV Rheinland appointed, wet process facilities and chemical suppliers the applicant
169 has to submit:

- 170 · Wastewater test and sludge test report,
- 171 · Chemical management audit report complying with the minimum criteria in the Annex, and
- 172 · MRSL test reports or certificates for chemical products selected by TÜV Rheinland (1-2
173 representative samples)

174 **6.1.1 Restriction of hazardous substances**

175 The final product shall not contain hazardous substances listed in the Restricted Substance List of 2
176 PfG S 0151 at or above the specified concentration limits or according to the specified restrictions.

177 The chemical test report complies with substance scope and reporting limits set out in.

- 178 · Report must identify the product and/or materials.
- 179 · Test reports should not be older than 12 month from the date of certification.

180 Chemical preparations with or combinations of H-Phrases mentioned in Annex of this document,
181 (according to CLP Regulation (EC) No 1278/2012) are restricted in the manufacturing of chemical
182 products and preparations above the threshold limit of 0.1 %.

183 Controlling and monitoring the chemical usage in production is covered by auditing process and the
184 testing of the producer's Chemical Management System.

185 Biocide finishes used to give biocidal properties to the final products shall not be incorporated into
186 fibres, fabrics or the final product.

187 Examples on biocidal treatment include triclosan, nano- silver, zinc organic compounds, tin organic
188 compounds, dichlorophenyl(ester) compounds, benzimidazol derivatives and isothiazolinones.

189 **6.1.2 Biodegradability of substances**

190 To meet the criterion, of requirements for the biodegradability of substances supplier has to declare
191 the nonintentional use of none-biodegradable substance (like textile auxiliaries such as surfactants,
192 spinning solutions, spinning additives, softeners and complexing agents) within the production.

193

194 A number of chemicals that may be used in the textile process have potential slow or missing
195 biodegradability with a negative effects on the environment (refer to Annex 8.2, H413 - for exclusion
196 of hazardous chemicals due to persistent within environment).

197 Relevant substances are usually removed from the fiber during the pretreatment process before dyeing
198 and finishing. The removal of auxiliaries such as spinning lubricants and knitting oils or preparations
199 by aqueous treatment results in wastewater, which may contain not only organic substances that are
200 difficult to biodegrade, such as mineral oils, but also hazardous compounds such as polyaromatic
201 hydrocarbons, alkylphenol ethoxylates (APEO) and biocides. The use of those substances should be
202 replaced by biodegradable and/or eliminable substances.

203

204 6.1.3 Wastewater test and sludge test report

205 Green Product Mark Certification requires regular wastewater tests from supplier's production units. It
206 accompanies the greater goal of the certification as well validates the performance against customer
207 (e.g. ZHDC standard) and certification related limits in wastewater. In the context of this certification,
208 TÜV Rheinland accepts all reports based on ZDHC approved laboratories.

209 Key aspects for validity and technical requirements

- 210 · Wastewater test and sludge should be conducted from ZDHC approved laboratories.
- 211 · The report needs to comply with substance scope, and reporting limits set out in Annex 3.
- 212 · Test reports should not be older than 12 months from the date of certification.
- 213 · The wastewater and sludge test reports shall be made publically available as required per
214 level.

215 Wastewater and sludge chemical analysis results are not evaluated for certification. All documents
216 must be available and collected by TÜV Rheinland. All supporting documents can be randomly spot-
217 checked to comply with due diligence of the supply chain. For none compliance of selected
218 parameters, TÜV Rheinland observes the right to refuse the certification based on the expert decision.

219 6.1.4 Test report for manufacturing substances

- 220 · MRSL test reports or certificates of compliance shall be based on ZDHC MRSL and/or should
221 achieve at least Level 1 of the ZDHC MRSL Conformance Certification.
- 222 · Bluesign certificates for chemical products are accepted.
- 223 · Test reports or certificates should not be older than 12 months from the date of certification.

224

225 Additional requirements:

226 The product must not show any obvious defects in safety and serviceability.

227 Demonstrating compliance with the specifications listed in this criteria catalogue is done by applying
228 appropriate tests, audits and document checks in the laboratories and under the expertise of
229 TÜV Rheinland.

230 The choice of which tests conducted is left entirely to the TÜV Rheinland and carried out based on
231 many years of testing experience while taking into account relevant exposure scenarios. The
232 investigations thus focus on production-contingent and material-specific substances.

233 TÜV Rheinland reserves the right to decide whether to recognise reports from other accredited
234 laboratories. Test reports which are older than 12 months from the date of certification will not be
235 accepted. TÜV Rheinland observes the right to have random re-inspections.

236

237 **6.1.5 Product quality standards**

238 Products need to fulfil basic quality requirements, verified by TÜV Rheinland either through testing or
 239 by accepting test reports as defined under point 4 (additional requirements). The selections of tests is
 240 depending on the type of product and material.

Colour fastness		
Colourfastness to rubbing (Textiles)		
dry	min. 4	min. 4
wet	min. 3	min. 3
Colourfastness to Rubbing (Leather)		
dry	min. 3	min. 3
wet	min. 2-3	min. 2-3
alkaline	min. 2-3	min. 2-3
Colourfastness to water	min. 3	min. 3
Colour fastness to perspiration		
alkaline	min. 3-4	min. 3-4
acidic	min. 3-4	min. 3-4
Colourfastness to saliva and perspiration	fast	fast

241

242 **6.2 Sustainable material content**

243 **6.2.1 Synthetic and chemical fibres**

244 Synthetic and chemical fibres, regardless of the composition or the use of recycling materials, must
 245 meet the criteria set out in Point 6.1 Protection of human health and environment.

246 For products containing recycled materials, a minimum content of 20 % recycled material must from
 247 pre and/or post-consumer waste.

248 In this context, the definition of (A) pre-consumer waste is polymer and fibre production waste, cuttings
 249 from textile and clothing manufacturers and (B) post-consumer waste as textile and all kind of fibre
 250 and textile products, as well as non-textile waste including PET drinking bottles.

251

252 **Verification requirements:**

- 253 a. Calculation of the percentages of more sustainable material based on the article weight.
- 254 b. Certification schemes for recycled fibres, e.g. DINCERTCO certificates for Recycled material,
 255 Textile Exchange certificates or similar

256 **6.2.2 Natural fibres**

257 Natural fibres, regardless of the composition or the use of recycling materials, must meet the criteria
 258 set out in Point 6.1 Protection of human health and environment.

259 Cotton and other natural cellulosic seed fibres shall contain a minimum content of either organic cotton
 260 or integrated pest management (IPM) cotton. In addition to all conventional cotton and IPM cotton
 261 used shall comply with the pesticide restrictions in criterion

262 In every case, the manufacturer of the cotton or other natural cellulosic seed fibres has to assure by
 263 means of an appropriate input control, for example by supplier evaluation and supplier selection,
 264 purchase conditions and testing program, that the RSL limits are kept.

265

266 **Verification requirements:**

- 267 c. Calculation of the percentages of more sustainable material based on the article weight.
- 268 d. Organic certification schemes for natural fibres (e.g. BCI, FSC for cellulose fibres, CmiA for
269 cotton, GOTS).
- 270 e. Sourcing of Man-made Cellulose fibres can be fulfilled by the requirement of cellulose of
271 sustainable Forest Management defined by FAO.

272

273 **7 Product function characteristics**

274 **7.1 Information for User**

275 Information that the product has been awarded the Green Product Mark, including a summary of the
276 major features for award of the Green Product Mark on a separate page and a link to
277 www.tuv.com/world/en/green-product-mark.html

278

279

280 **8 Annex**

281 **8.1 Wastewater and Sludge testing**

282 Criteria for the acceptance of wastewater and sludge test reports from none TÜVR labs:

- 283 · ISO 17025 accreditation
- 284 · Test method and individual substances as per current valid ZHDC wastewater guideline
285 [ZDHC Wastewater Laboratory Sampling and Analysis Plan \(SAP\)](#)
- 286 · Test method must meet the reporting limits for all parameter

287

288 **8.2 List of relevant H statements**

289 H300: Fatal if swallowed

290 H310: Fatal in contact with skin

291 H330: Fatal if inhaled

292 H340: May cause genetic defects

293 H341: Suspected of causing genetic defects

294 H350: May cause cancer

295 H351: Suspected of causing cancer

296 H360: May damage fertility or the unborn child

297 H361: Suspected of damaging fertility or the unborn child

298 H370: Causes damage to organs, H371: May cause damage to organs

299 H400: Very toxic to aquatic life

300 H410: Very toxic to aquatic life with long lasting effects

301 H411: Toxic to aquatic life with long lasting effects

302 H412: Harmful to aquatic life with long-lasting effects

303 H413: May cause long lasting harmful effects to aquatic life

304

305 **8.3 Minimum requirements for Chemical Management audits (CMA)**

306 CMA or verification reports must not be older than one year from the date of certification. In addition,
307 the report must cover the following topics.

308 Point 1 to 3 list out criteria of Zero-Tolerance the facility need to comply with.

- 309 1. The facility does not monitor chemical management related laws, regulations, and
310 standards, and update them regularly.
- 311 2. The facility's wastewater discharge is not following legal requirements.
- 312 3. The facility does not identify the hazardous waste, or the hazardous waste's storage
313 condition does not comply with the legal requirements.
- 314 4. There is no training program about chemical management for staff.
- 315 5. The facility does not establish and traceability procedures for its raw materials.
- 316 6. The facility has not prepared a full chemical inventory.
- 317 7. The facility has not conducted any risk assessment for the chemical contact working place.
- 318 8. The facility has not conducted air emission test, or the test result is not following the legal
319 requirements.

320

321 Alternatively, the following audit schemes can be accepted:

- 322 · TÜV Rheinland audit scheme
- 323 · LWG Bronze, Silver and Gold standard
- 324 · BEPI
- 325 · SAC Higg Index FEM 3.0
- 326 · Audit reports from third parties after expert assessment

327