

Product Category Rules



Textile

sub-PCR TEX 2022



GLOBAL GREENTAG INTERNATIONAL PTY LTD

ENVIRONMENTAL PRODUCT DECLARATION (EPD) PROGRAM

Type III EPDs

Compliant to

EN 15804 +A2, ISO 14025 and ISO 21930

For construction products

Sub Product Category Rules (PCR) based on Life Cycle Analysis

Interior Textiles PCR 2022-2025

Sub-PCR 2022 TEX V1

I. Application

While CEN standard EN 15804 serves as the core Product Category Rules (PCR)s pertaining to all product categories, this subsidiary PCR document contains extra rules applicable to a particular product category. The former is called the PCR master document and the latter is called the sub-PCR. As environmental health legislation is enacted, rules in the master document shall be revised with file name and revisions clearly marked so all such PCRs are identifiable for those points in time.

II. Authors

These product category rules, compiled by Delwyn Jones, Director Sustainability, The Evah Institute a Division of Ecquate Pty Ltd have been customised for this product class by Dr Nana Bortsie-Aryee, Senior Product Assessor, Global GreenTag. Rules were approved for Global GreenTag adoption by David Baggs, Program Director, Global GreenTag International Pty Ltd.

III. Terms of Validity

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PCR issue date 01/10/2022 and Period of validity to 01/10/2025

IV. Goal

The intended goal is a guide for developing EPDs for a set of defined products with specified functionality. Users include specifiers, manufacturers and stakeholders. It is valid for all such defined products and related components according to standards and technical approvals herein.

V. Product Set Definition

The declared product set includes textiles used for interior applications of all kinds having:

- Upholstery, blind, curtain, wall, fitout, furniture and fittings fabrics and fabrications of:
- Plant, animal, wood, pulp, paper, metal, polymer and synthetic wool, hair and fibres, formed as
- Woven textiles, non-woven, melded and composite fabrics including backings.

Specifications must conform to applicable International and Australian Standards to ensure product is fit for purpose.

20 years function in commercial and residential sector fitout e.g for sets of mm thick sheets, where relevant specifications must conform to International and Australian Standards including:

- Australian and New Zealand Standard AS/NZS 2111.1:1996 Textile Floor Coverings – Test and Measurements – Machine-made Textile Floor Coverings – Determination of Total Thickness
- Australian standard AS 4288 – Soft underlays for textile floor coverings
- EN ISO 1043-1:2011/ISO 1043-1:2011: Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics
- ISO 2076:2010: Textiles — Man-made fibres — Generic names
- ISO 2060:1994: Textiles — Yarn from packages — Determination of linear density (mass per unit length) by the skein method
- ISO 1973:1995: Textile fibres — Determination of linear density — Gravimetric method and vibroscope method

System outcomes and results are declared per mass of a given fabric considering performance at reference exposure, strength, wear, temperature and humidity conditions defined by 14025:2006, 6.7.

VI. Declared Unit

The declared unit is use of 1 kg or m² of a declared kg/m² textile'

VII. Functional Unit

The functional unit for EPDs reflects declared reference conditions for service cradle to grave. Here the functional unit is 1 kg or m² of a declared kg/m² textile interior 20 years use, cradle to grave or gate plus options in commercial, industrial or residential buildings.

Normative References

- Australian and New Zealand Standard AS/NZS 2111.1:1996 Textile Floor Coverings – Test and Measurements – Machine-made Textile Floor Coverings – Determination of Total Thickness
- Australian standard AS 4288 – Soft underlays for textile floor coverings
- CENT/TR 15941 - 2010: Sustainability of construction works – Environmental Product Declarations-Methodology for the selection of generic data, CEN
- CENT/TR 15942 - 2014: Sustainability of construction works - Environmental Product Declarations-Communication formats: business to business, CEN
- EN 15643-1: 2011: Sustainability of construction works - Sustainability assessment of buildings – Part 1 general framework, CEN
- EN 15643-2: 2011: Sustainability of construction works - Sustainability assessment of buildings – Part 2 framework for assessment of environmental performance, CEN
- EN 15804: 2012: Sustainability of construction works, Environmental product declarations, European Committee for Standardisation (CEN)
- EN15978 - 2011: Sustainability of construction works - Assessment of environmental performance of buildings - Calculation method, European Committee for Standardisation, CEN
- ISO 1973:1995: Textile fibres — Determination of linear density — Gravimetric method and vibroscope method
- ISO 2076:2010: Textiles — Man-made fibres — Generic names
- ISO 2060:1994: Textiles — Yarn from packages — Determination of linear density (mass per unit length) by the skein method
- ISO 6707-1:2004 Building and civil engineering: Vocabulary Part 1: General terms
- ISO 9001:2008 Quality Management Systems Requirements
- ISO 14001:2004 Environmental management systems: Requirements with guidance for use
- ISO 14004:2004 EMS: General guidelines on principles, systems & support techniques
- ISO 14015:2001 EMS: Environmental assessment of sites & organizations (EASO)
- ISO 14020:2000 Environmental labels & declarations — General principles
- ISO 14024:2009 Environmental labels & declarations -- Type I Principles & procedures
- ISO 14025:2006 Environmental labelling & declarations Type III EPDs Principles & procedures
- ISO 14031:1999 EM: Environmental performance evaluation: Guidelines
- ISO 14040:2006 EM: Life cycle assessment (LCA): Principles & framework, London, BSI, 2006.
- ISO 14044:2006 EM: LCA: Requirement & guideline LCI; LCIA Interpretation, London, BSI, 2006.
- ISO 14050:2009 Environmental management: Vocabulary
- ISO 14064:2006 EM: Greenhouse Gases: Organisation & Project reporting, Validation & verification
- ISO 15392:2008 Sustainability in building construction General principles
- ISO 15686-1:2011 Buildings & constructed assets Service life planning Part 1: General principles
- ISO 15686-2:2012 Buildings & constructed assets Service life (SL) planning Part 2: prediction
- ISO 15686-8:2008 Buildings & constructed assets SL planning Part 8: Reference & estimation
- ISO 21929-1:2011 Sustainability in building construction Sustainability indicators Part 1 Framework
- ISO 21930:2007 Building construction: Sustainability, Environmental declaration of building products
- ISO 21931-1:2010 Sustainability in building construction Framework for methods of assessment for environmental performance of construction works Part 1: Buildings
- ISO 21932:2013 Sustainability in buildings and civil engineering works -- A review of terminology

General References

- Australian & New Zealand ([ANZECC](http://www.environment.gov.au/water/quality/national-water-quality-management-strategy)) [Guidelines For Fresh & Marine Water Quality \(2000\)](http://www.environment.gov.au/water/quality/national-water-quality-management-strategy)
- Basel Convention (2011) Control of Transboundary Movement of Hazardous Waste & Disposal <http://www.basel.int/portals/4/basel%20convention/docs/text/baselconventiontext-e.pdf>
- CML LCA methodology, Institute of Environmental Sciences (CML), Faculty of Science, University of Leiden, Netherlands
- EN ISO 1043-1:2011/ISO 1043-1:2011: Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics
- Evah (2022) LCA Tools, Databases & Methodology at <http://www.evah.com.au/our-tools.html>
- GreenTag™ (2022) Product Category Rules <https://www.globalgreentag.com/epd-program.html>
- IBISWorld (2022) Market Research, <http://www.ibisworld.com.au/> IBISWorld Australia
- International Energy Agency, Energy Statistics 2022 <https://www.iea.org/countries>
- Plastics Europe (2022) Portal <http://www.plasticseurope.org/plastics-sustainability/eco-profiles.aspx>
- Pre (2017) SimaPro 8 Software, Netherlands <https://support.simapro.com>
- Myhre et al, 2013, Anthropogenic and Natural Radiative Forcing Chapter 8 in Stocker et al (eds.) Climate Change 2013, AR5 of the IPCC, Cambridge U Press UK. <http://www.ipcc.ch/report/ar5/wg1/>
- UNEP (2014) Persistent Organic Pollutants <https://wedocs.unep.org/handle/20.500.11822/29680>The UN
- US LCI (2022) Life-Cycle Inventory Database <https://www.lcacommons.gov/nrel/search>, USA
- U.S. Geological Survey National Minerals (2022) <http://minerals.usgs.gov/minerals/pubs/> USA
- US EPA (2014) Database of Sources of Environmental Releases of Dioxin like Compounds in U.S <http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=20797> p 1-38, 6-9, USA.

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Revision History

Revision	Date	Author	Notes
DRAFT v1.0	03/08/2022	NBA	Original Draft
DRAFT v1.1	25/08/2022	DGJ	Evah draft