

CLIMATE DECLARATION

For D4F Cotton Yarn

Declared unit: 1 kg of Dyed 100% Cotton Yarn

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025.

Information about the product

D4F Cotton Yarn is 100% cotton yarn dyed with Dye4Future waterless dyeing technology developed by Bak-Ay Tekstil using sulphur dyes. These yarns are intended to be used for many types of fabrics including jeans, fancy fabric, accessories and home textiles.

D4F Cotton Yarn is available in any colour combinations in counts from Ne 6/1 to Ne 50/1. D4F Cotton Yarn can be combined with off-white yarns without any dirt issues.

Dye4Future™ Technology

Dye4Future™ is the future proof dyeing technology developed by Bak-Ay Tekstil for environmentally friendly and resource efficient dyeing of cotton and cotton yarn mix cellulosic fibres by indigo and sulphur dyestuff. Dyeing is performed under very low oxygen conditions to avoid dye stuff loss and prevent water pollution. Dye4Future™ technology is the solution for environmentally friendly dyeing for future and sustainable textiles.

Information about the company

Bak-Ay Tekstil has been in the textile market since 1984. After many years of research and development, Bak-Ay launched the Dye4Future dyeing technology in early 2019 and provides the market with many types of yarns with reduced environmental impacts due to this new dyeing process. This sustainable technology is a new addition to already existing denim yarn dyeing plant with a monthly capacity of 30 tons in operation since 2014. With sustainability in mind, the company brings new breath and innovation into world textile market with the fabrics they produce by evaluating the yarns produced within their weaving and knitting plants where polyester, polyester cotton, viscose, nylon, nylon lycra and linen mix fancy fabrics are produced.

Certified to many standards such as Eco Tex100, GOTS-TR, Bak-Ay serves well-known companies such as ZARA, H&M, Marks & Spencer, Ann Taylor and BCBG without compromising the principles of quality and fast service, and exports to many countries such as the USA, the Netherlands, Italy, Spain and England.

Climate Declaration

The table below shows the emissions of greenhouse gases, calculated as carbon dioxide equivalents (kg CO₂ eq.) for 1 kg of dyed cotton yarn. This LCA is cradle to grave, end of life is excluded as per PCR for Textile Yarn and Thread.

Upstream	Core	Downstream	TOTAL
6.80 kg CO ₂ eq.	0.80 kg CO ₂ eq.	0.0009 kg CO ₂ eq.	7.60 kg CO ₂ eq.

Other environmental information

This declaration is limited to the impact on climate change by emissions of greenhouse gases. Further information about other relevant environmental aspects is available in the form of an Environmental Product Declaration, EPD®, at www.environdec.com and www.epdturkey.org.

Contact information

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EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM		REGISTRATION NO: S-P-01266	VALIDITY: 2024-07-26
PCR: 2013:12 Version: 2.1	UN CPC: 2636	PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD® SYSTEM	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: doc. Ing. Vladimír Kočí, Ph.D, INDIVIDUAL VERIFIER		APPROVED BY: THE INTERNATIONAL EPD® SYSTEM	
LINK TO MORE INFORMATION: https://epdturkey.org/urun/epd01266/		https://www.environdec.com/Detail/?Epd=13878	
CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE. THIS SINGLE-ISSUE EPD ONLY ADDRESSES ONE ENVIRONMENTAL IMPACT CATEGORY AND DOES NOT ASSESS OTHER POTENTIAL SOCIAL, ECONOMIC, AND ENVIRONMENTAL IMPACTS ARISING FROM THE PROVISION OF THIS PRODUCT. THESE ASPECTS MAY BE OF EQUAL OR GREATER IMPORTANCE THAN THE SINGLE IMPACT CATEGORY DISPLAYED.			