

**black**<sup>®</sup>  
is green

wear **black.** think green.



“இந்த பூமிப் பந்தை நாம் நமது முன்னோர்களிடமிருந்து சொத்தாகப் பெறவில்லை,  
மாறாக நமது பேரக் குழந்தைகளிடமிருந்து கடனாகப் பெற்றுள்ளோம்”

"the planet earth is not inherited from our ancestors but,  
we have borrowed it from our grand children"



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RESPONSIBLE CORPORATE  
**UNIFORMS**



**Comfort**



**Skin Health**



**Sustainability**

# Sustainable Uniforms for Responsible Living

## DOPE DYED VISCOSE APPAREL

**Black** isn't dyed later.  
**Black** is born green.

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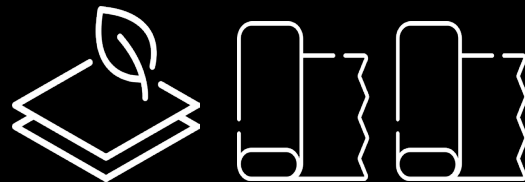
### WHAT IS BLACK IS GREEN<sup>®</sup>?

Uniforms made from dope dyed viscose fibre, where colour is added at the fibre spinning stage itself — eliminating conventional dyeing.

### FABRIC OPTIONS

*Suitable for*  
**LONG-HOUR WEARS**

1



**100% Dope Dyed  
BLACK VISCOSE**

2

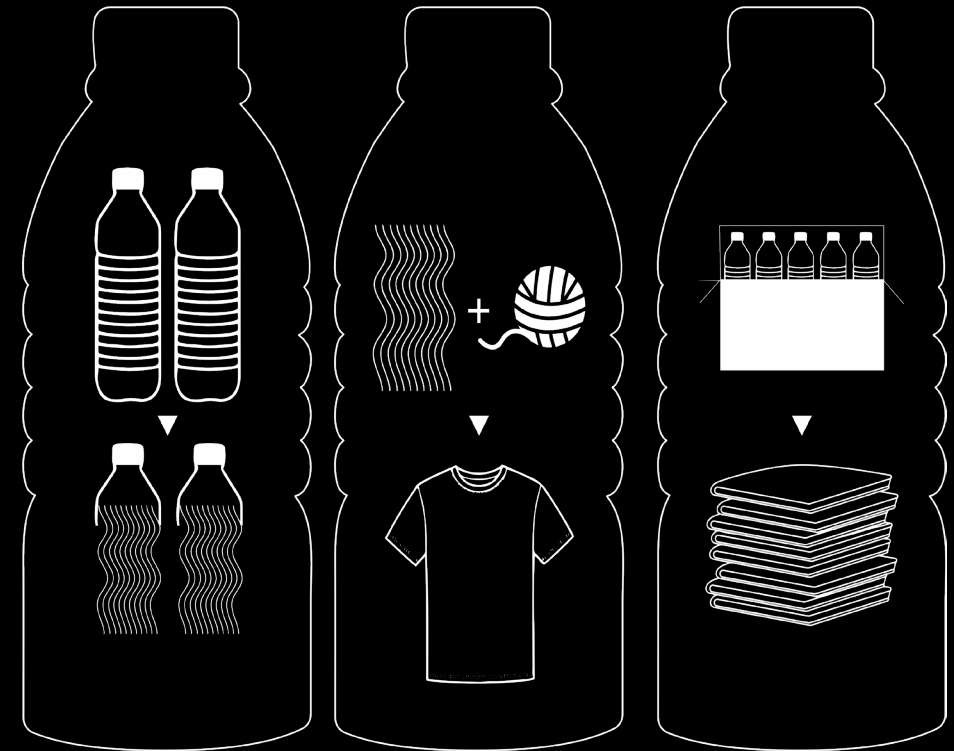
**80% Dope Dyed  
BLACK VISCOSE  
20% Dope Dyed BLACK  
RECYCLED POLYESTER**  
(enhanced stability & longer garment life)

# WHAT GOES INTO MAKING "marumai" APPAREL

## RECYCLED POLYESTER

### POST-CONSUMER WASTE

- Trashed PETe plastic bottles are crushed cleaned and transformed into sturdy shiny polyester fibres
- Recycled polyester fibres are then added to EcoVero, Modal, Viscose, Cotton etc., to produce yarns and fabrics
- A substantial number of PETe bottles are used in making a marumai (REBIRTH) garment



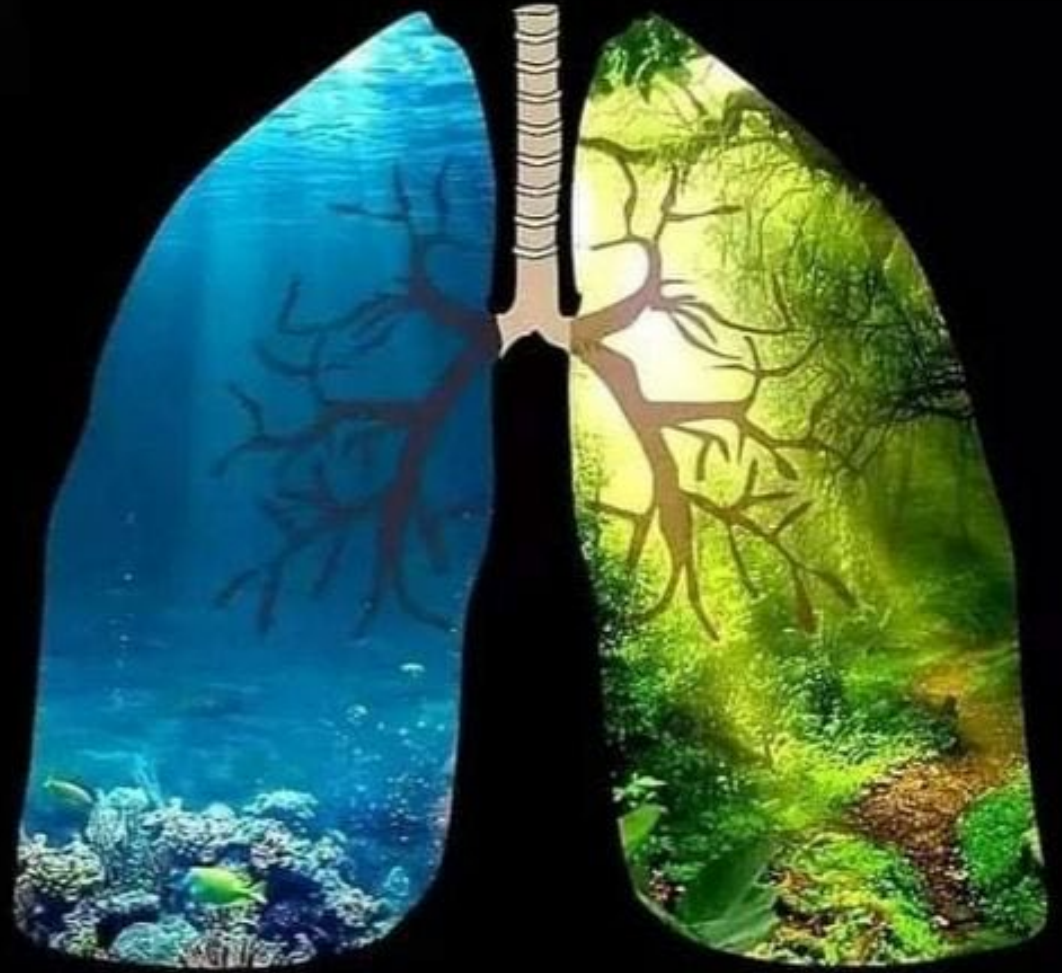
**Dope Dyed BLACK RECYCLED POLYESTER**

## The Lungs of the Earth

One is full of plastic and the second is a heavy smoker.

The world's forests, along with its oceans, absorb enormous amounts of the carbon dioxide that circulates in the atmosphere.

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OUR PLANET HAS TWO LUNGS ONE IS GREEN  
THE OTHER IS BLUE

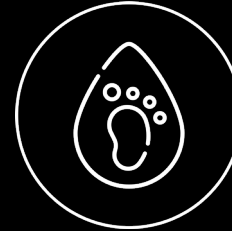
# black<sup>®</sup> is green



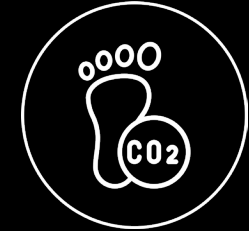
**Save**  
the environment



**Save**  
GHG Emissions



**Lower**  
Water footprint



**Lower**  
Carbon footprint

# black<sup>®</sup> is green



**Power Saving / Batch**  
up to 3.5 - 4.0 KW



**Reduces Effluent**  
Load by 70%



**Energy & Fuel**  
Saving / Batch 110 - 115 kg



**Time Saving / Batch**  
6 - 8 Hrs



**Water Saving**  
up to 70 Litres / kg



**Steam Saving / Batch**  
450 - 500 kg

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## Water Used to Produce 1 kg of Fibre (Approx.)

Fibre Type	Water Consumption*	Key Notes
<b>Cotton</b>	<b>5800 litres</b>	Highly water-intensive due to irrigation, especially conventional cotton
<b>Viscose (Rayon)</b>	<b>319 litres</b>	Water used mainly in wood pulp processing
<b>Modal</b>	<b>472 litres</b>	More efficient process than viscose; often closed-loop
<b>Lyocell / TENCEL™ (reference)</b>	<b>263 litres</b>	Lowest water footprint among regenerated fibres

\* Values are global averages and vary by region, farming practices, and technology.

## Compostability & Biodegradation

Fibre	Compostable	Decomposition Time
<b>Cotton (100%)</b>	✓ Yes	~90–180 days
<b>Viscose</b>	✓ Yes	<b>~70–90 days</b>
<b>Modal</b>	✓ Yes	~60–90 days
<b>Lyocell</b>	✓ Yes	~45–90 days

✓ All fibres listed are **plant-based**

✓ Fully biodegradable **under soil & industrial compost conditions**

## Regenerated Cellulosic Dope Dyed Fibres



### PLANTATION

Sustainably grown plantation resources form the base raw material.



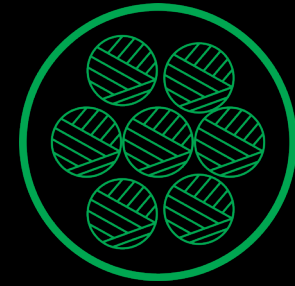
### PULP

Derived from renewable wood sources.



### FIBER

Regenerated cellulosic fibre produced through an environmentally responsible process.



### SPUNSHADES

Dope-dyed fibres with colour infused into the core, delivering consistent shade, superior fastness, and sustainability benefits.



### Safe Effluents

This unique process results in a low effluent load, which is safe for lakes, streams, and local communities.

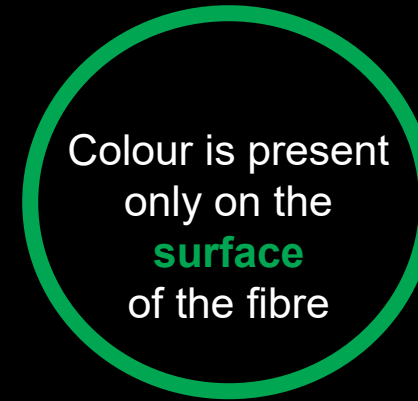


### Water Saving Benefit

Saves **70 liters of water per kg**. Spun-dyed fibres require significantly less water than conventional dyeing techniques.

## CHAMPION A GREEN ENVIRONMENT

Parameter	Reduction Achieved
Effluent discharge	40%
Greenhouse gas emissions	20%
Water consumption	40%
Power consumption	55%
Steam consumption	55%



**Conventional Dyeing**



**Spunshades**

\* While producing 1 kg of 100% viscose dope-dyed fabric vs. conventional dyed fabric.

Conventional Dyeing	Spunshades
Colour is present only on the <b>surface</b> of the fibre	Colour is <b>infused into the core</b> of the fibre
Higher water, power & chemical usage	Lower resource consumption
Shade loss over repeated washes	Long-lasting colour integrity

# SPUNSHADES vs CONVENTIONAL DYEING

Attributes	Spunshades	Conventional Dyed Method
Wash fastness	High	Low
Rub fastness	High	Low
Light fastness	High	Low
Fastness to iron	High	Low
Stability of colour during process	High	High
Uniformity – within lot	Excellent	Batch differences
Uniformity – between lot	Excellent	Patchy possibility
Shade repeatability	Very good	Difficult
Fabric look and feel	Good	High imperfections
Effluent load saving	High	Low
Eco-friendly certification	Oeko-Tex certified	Depends on the type of dyes used

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**HILLSILVER**  
Innovate • Sustain • Excel



# WHY DOPE DYED?

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## Solution Dyed Fibre

- ✓ No fibre / yarn / fabric / garment dyeing
- ✓ Massive water & energy savings
- ✓ Lower carbon & water footprint
- ✓ Shorter manufacturing cycle
- ✓ Permanent colour fastness (wash & wear)

**Conventional dyeing eliminated.**

**Pollution avoided.**

# BEYOND BLACK

- Dope dyed viscose available in other colours (subject to commercial volumes)
- Colour consistency without dye-house pollution

## CERTIFICATION

- OEKO-TEX<sup>®</sup> Standard 100 – Class I  
Safe for garments worn close to skin

## APPLICATIONS

- ✓ CORPORATE UNIFORMS
- ✓ SCHOOL UNIFORMS
- ✓ EVENING & HOME WEARS



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## COMFORT & SKIN HEALTH

Designed for long hours of Indian wear conditions

- Botanic origin, cellulosic fibre  
Moisture regain ~13%  
(Cotton ~8%, Polyester ~0.3%)
- Breathable, soft, sweat-absorbent  
Safe for next-to-skin contact

**Cooler. Softer. Healthier.**

## EASY CARE & SHAPE RETENTION

Knitted with 4% Mobilon<sup>®</sup> Elastane

- 360° stretch & recovery
- Retains shape after repeated washes
- Soft yet firm grip on the body

### **Mobilon<sup>®</sup> Elastane**

- Made in Japan
- Solvent-free melt spinning process
- Lower environmental impact

# A QUESTION THAT MATTERS

When choosing uniforms for **employees or children**

Price first or **health and responsibility?**

Lets make black is green ® a truly great EcoWear as a part of our every day life- at work, at school, and in our communities.

**We care. Mother Earth matters.**

*Together, let's create a greener tomorrow.*



## CURRENT OFFER

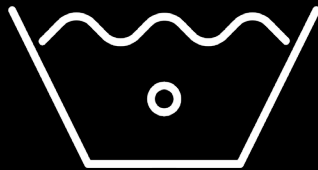
### **Black is Green<sup>®</sup>** Eco Collar T-Shirt

- ✓ **Special price: ₹699** per piece + courier
- ✓ Logo / monogram customization available
- ✓ Sizes as per requirement

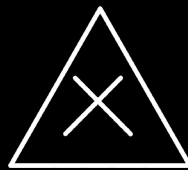
## Size Chart (Chest Circumference Measurement)

Size	Chest (cm)	Chest (meters)	Chest (inches)
<b>S</b>	99 cm	0.99 m	39.0 in
<b>M</b>	104 cm	1.04 m	41.0 in
<b>L</b>	109 cm	1.09 m	42.9 in
<b>XL</b>	114 cm	1.14 m	44.9 in
<b>XXL</b>	119 cm	1.19 m	46.9 in
<b>3XL</b>	124 cm	1.24 m	48.8 in
<b>4XL</b>	129 cm	1.29 m	50.8 in

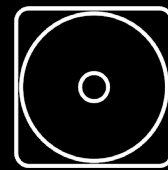
# WASH CARE



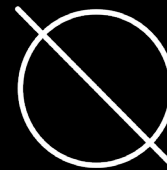
**Gentle  
Wash**



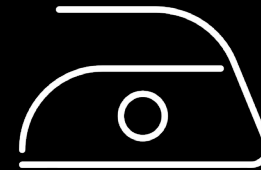
**Do not  
Bleach**



**Tumble  
Dry**



**Do not  
Dry clean**



**Iron at  
Low Heat**



## திருக்குறள்

குறள் 13 - வான் சிறப்பு

விண்ணின்று பொய்ப்பின் விரிநீர் வியனுலகத்து  
உள்நின்று உடற்றும் பசி.

- திருவள்ளுவர்

If the sky fails to rain when expected, then even in this vast world surrounded by seas, hunger will remain within and torment living beings



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**Think comfort wear. Think of us.**