

TEXTILE-TO-TEXTILE

RECYCLED POLYESTER

Made possible by
Thermo-Mechanical
Reactor[™] recycling

BOTTLE-TO-FIBER

IS DOWNCYCLING



IT'S TIME TO REDUCE YOUR IMPACT
AND GO **BEYOND BOTTLES[™]**

Currently, bottle flake RPET represents **99%** of the RPET market. However, the fashion industry needs to move past downcycled single-use plastics and go **Beyond Bottles[™]**.

Our philosophy is that each industry should recycle its respective waste and discontinue bottle-to-fiber recycling.



textile-
to-textile
recycling



bottle-
to-bottle
recycling

OUR PROCESS IN 8 STEPS

Tex2Tex[®] process covers **waste collection** to **fiber manufacturing** and offers virtually limitless material circularity.



IMPACT REDUCTION BY USING 1KG OF TEX2TEX[™] FIBER

CO ₂ Emissions		Waste Water	
Tex2Tex [®]	84% less than virgin	Tex2Tex [®]	99.7% less than virgin
Bottle RPET*	3.4x more than Tex2Tex [®]	Bottle RPET*	23x more than Tex2Tex [®]
Virgin PET	6.4x more than Tex2Tex [®]	Virgin PET	347x more than Tex2Tex [®]
Non-renewable Energy		0% Solid Waste	
Tex2Tex [®]	97% less than virgin		
Bottle RPET*	10x more than Tex2Tex [®]		
Virgin PET	29x more than Tex2Tex [®]		

*Bottle RPET represents the average of thermo-mechanical and chemical recycling methods.

Reach out to us for the full **Life Cycle Assessment**.

TEX2TEX[™] PLUG & PLAY

Tex2Tex[®] RPET is available in fiber, yarn, and fabric fully certified by the **Global Recycling Standard (GRS)**.



Tex2Tex[®] is available in a range of colors and specifications including in pellets, staple fiber and filament.

Visit our digital catalogue (**click to access**) to see our full product range and don't forget to measure your impact using the Tex2Tex[®] impact calculator (**click to access**).

Our materials are built for apparel, home textiles, industrial applications and beyond.

WHY TEX2TEX[®]?



Cost Competitive

Tex2Tex[®] fiber prices are competitive with conventional polyester and bottle RPET.



Large Capacity

60,000T/yr staple fiber production capacity.



Low Impact

Lowest impact commercially available polyester staple fiber in the marketplace.

Tex2Tex[®] **Thermo-Mechanical Reactor[™]** (TMR[™]) technology improves the quality of the polymer and removes contamination, enabling low value polyester textile waste to be recycled again and again...

FIBERS

Type	Composition	Color
1.5D*38mm	100% Tex2Tex [®] RPET	Ecru
1.5D*38mm	100% Tex2Tex [®] RPET	Off-White
1.4D*38mm	100% Tex2Tex [®] RPET	Raw White
1.2D*38mm	100% Tex2Tex [®] RPET	Raw White
1.4D*38mm	100% Tex2Tex [®] RPET	Dope Dye Black* (Light)
1.4D*38mm	100% Tex2Tex [®] RPET	Dope Dye Black* (Dark)

*Other made-to-order specifications available. Dope dye black additive varies from 3-10%

PELLETS

Type	Composition	Color
Pellets	100% Tex2Tex [®] RPET	Ecru
Pellets	100% Tex2Tex [®] RPET	Brown
Pellets	100% Tex2Tex [®] RPET	Black*

*Additional dope dye black is required in extrusion to achieve black material output.

FILAMENTS

Type	Composition	Color
20D - 450D DTY NIM SD	100% Tex2Tex [®] RPET	Off-white/Dope Dye Fashion Colors
20D - 450D DTY SIM SD	100% Tex2Tex [®] RPET	Off-white/Dope Dye Fashion Colors
20D - 450D DTY HIM SD	100% Tex2Tex [®] RPET	Off-white/Dope Dye Fashion Colors
50D - 450D DTY NIM SD	100% Tex2Tex [®] RPET	Dope Dye Black*
50D - 450D DTY SIM SD	100% Tex2Tex [®] RPET	Dope Dye Black*
50D - 450D DTY HIM SD	100% Tex2Tex [®] RPET	Dope Dye Black*

*Other made-to-order specifications available. Dope dye black additive varies from 3-10%

YARN

Style	Made with Tex2Tex [™] RPET	Yarn Size
Ring-Spun Carded/Combed	35% - 100% Tex2Tex [®]	Ne 8/1 - 40/1
Siro-Compact Carded/Combed	35% - 100% Tex2Tex [®]	Ne 8/1 - 40/1
Corespun	35% - 100% Tex2Tex [®]	Ne 8/1 - 40/1
Open-End	35% - 100% Tex2Tex [®]	Ne 5/1 - 21/1
Vortex	35% - 100% Tex2Tex [®]	Ne 8/1 - 40/1

NON WOVEN / WOVEN / KNITS

Tex2tex[®] industry applications

Footwear/ Apparel	Accessories	Home Textiles
Automotive & Aviation	Construction/ Geotextiles	Packaging



Access to our website to learn more about our process, impact and philosophy.



If you are ready to be part of the solution, connect with us **info@earthprotex.com**

EarthProtex[™]