

TECHNICAL DATA SHEET

Chemically-Regenerated (“Refiber”) Polyester

Chemically-Regenerated (“Refiber”) Polyester — Premium circular-fashion garments · performance/outdoor wear · take-back/closed-loop collections. Unlike mechanical rPET, virgin-equivalent quality from colored/blended waste; genuine textile-to-textile circularity.

Construction	Depolymerization — PET broken to monomers and re-polymerized; handles colored/blended waste
Process	Chemical recycling (glycolysis / methanolysis)
Luster	As DTY/FDY; on request
Yarn family	Functional & Sustainable
Typical use	Premium circular-fashion garments · performance/outdoor wear · take-back/closed-loop collections
Strength	Unlike mechanical rPET, virgin-equivalent quality from colored/blended waste; genuine textile-to-textile circularity.
Watch for	Availability and cost differ from mechanical rPET; supply and certification confirmed on request. (Note: “Refibra” is Lenzing’s lyocell brand — distinct from this polyester regeneration.)

CERTIFICATIONS

ISO 9001	ISO 14001	ISO 45001	OEKO-TEX STEP	STANDARD 100	GRS · RCS
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Width, gauge, finishing options and test standards are shared on request.

Related reading: [Recycled Polyester \(rPET\) in Knits](#) · [Cationic-Dyeable Polyester \(CDP/ECDP\)](#) · [Solution-Dyed \(Dope-Dyed\) Polyester](#) · [Bio-Based and Alternative Polyesters: bio-PET, PTT, PBT](#)

