

TECHNICAL DATA SHEET

Polyester Rib Knit (1x1 / 2x2)

Weight	160-300 g/m ² (4.7-8.8 oz/yd ²)
Composition	100% polyester (elastane-free); stretch comes from the structure.
Knit type	Rib (1x1 / 2x2) · Rib
Use class	Everyday
Stretch	Mechanical stretch
Knit	A 1x1 or 2x2 rib produced on opposed needle rows; pronounced vertical channels on both faces, a reversible double-face fabric.
Hand	Clear vertical channels, full and springy; compresses and opens crosswise, self-recovering; edges don't curl.
Typical use	Collar/cuff/waistband trims · hem & cuff ribbing · ribbed tops
Strength	A non-curling channelled structure that hugs the body with high crosswise stretch and natural recovery.
Watch for	Without elastane, heavy weights can slacken over repeated stretching; lengthwise stretch is low.

CERTIFICATIONS

- ISO 9001
- ISO 14001
- ISO 45001
- OEKO-TEX STEP
- STANDARD 100
- GRS · RCS

Width, gauge, finishing options and test standards are shared on request.

Typical technical ranges

Weight tolerance	±5% (typical); ±5-7% may apply on heavy/dense rib and elastane-blended variants
Width	Relaxed open width typically ~70-190 cm; tubular width typically 30-90 cm (Ø). Because rib contracts strongly widthwise, the relaxed width is markedly narrower than off-machine width and is highly sensitive to relax/tension state at measurement
Shrinkage (wash)	Post-wash typically ±5% in length/width (length may show a small positive growth). Due to widthwise recovery, rib can show higher dimensional change in WIDTH than single-jersey; under-set goods may reach -6 to -7% in width, while good heat-setting brings it toward ±3%
Color fastness	Wash ≥4, rubbing (dry) ≥4 / (wet) ≥3-4, light ≥4-5 (grey/blue scale, min). Typically good for disperse-dyed PES; on dark/bright shades wet rub may sit at the lower bound due to sublimation/migration
Abrasion / pilling	Martindale typically ~20,000-40,000+ cycles; pilling typically grade 3-4 / 4 (ISO 12945), dropping toward 3 on textured/bulky yarn. Plain rib face pills relatively well; textured/bulky yarn or surface fuzz pushes it toward the lower bound
Gauge / yarn	Typical machine gauge E14-E24 (coarse cuff/collar rib E14-E18; standard cuff/collar rib E18-E22; fine sport rib up to E24). Yarn typically 75-150 denier PES (DTY textured), 50-75 denier on finer builds; elastane variant adds ~20-40 denier spandex

These ranges are industry-TYPICAL / indicative values based on construction and fiber, not Fersan's binding QC measurements. Exact values are confirmed per order, approved sample and lot-based QC report.

Related reading: [Rib, Interlock and Ponte: Choosing the Right Double-Face Knit](#) ·

[Naming in Polyester Knits: When One Fabric Has Many Names](#) ·

[Knit Defects: Spirality, Barré and Holes — Root Cause and Control](#) ·

[Compacting & Residual Shrinkage: How Compactors Lock In Dimensional Stability](#)