

Evolution20

“New technically advanced material providing superior ultra-lightweight travelling comfort”

- ▶ Super lightweight
- ▶ Highest level of tearing strength
- ▶ Advanced airflow technology/wind-proof
- ▶ Durable Water Repellancy



This new innovation from Toray Textiles Europe combines exceptionally light weight product with strength, comfort and performance. It offers a durable water repellent finish and unsurpassed strength performance. A product which can be appropriate in any environment from extreme weather conditions through to high street fashion.

‘Nothing compares’
Technally Advanced Lightweight Nylon

Evolution20

| Fabric | Units | Test Method | Nax | Soll | Pila | Como | Ski | Châtel | Runa-X | Albaron | Zermatt |
|----------------------------|---------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|
| Qual No. | | | 4758 | 4759 | 4760 | 4761 | 4764 | 4782 | 4849 | 7939 | 7940 |
| Warp | decitex | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Weft | decitex | | 44 | 44 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Weave | | | Plain | Diamond | Mini-grid | Ripstop | Plain | Mini-grid | Ripstop [§] | Ripstop | Ripstop |
| Finish | | | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR | Ciré+WR |
| Useable width | cm | EN 1773:1997 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 |
| Ends | per cm | EN 1049-2:1994 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| Picks | per cm | EN 1049-2:1994 | 54 | 55 | 72 | 74 | 69 | 72 | 74 | 74 | 71 |
| Yield | g./m ² | EN 1217:1998 | 45 | 40 | 35 | 40 | 35 | 35 | 35 | 35 | 40 |
| Abrasion (9 kPa load) face | revs. | ISO 12947:1998 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 60,000 |
| Abrasion (9 kPa load) back | revs. | ISO 12947:1998 | > 100,000 | > 100,000 | > 85,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 | > 100,000 |
| Warp tensile strength | N. | ISO 13934-1:1999 | > 400 | > 275 | > 275 | > 300 | > 300 | > 300 | > 300 | > 275 | > 300 |
| Weft tensile strength | N. | ISO 13934-1:1999 | > 300 | > 450 | > 325 | > 325 | > 275 | > 325 | > 275 | > 325 | > 300 |
| Warp tear strength | N. | ISO 13937-1:2000 | 11 | 9 | 29 | 23 | 12 | 23 | 15 | 22 | 18 |
| Weft tear strength | N. | ISO 13937-1:2000 | 16 | 17 | 15 | 17 | 10 | 18 | 13 | 17 | > 32 |
| Warp tear strength | N. | ISO 13937-2:2000 | 11 | 9 | 17 | 19 | 12 | 21 | 13 | 19 | 15 |
| Weft tear strength | N. | ISO 13937-2:2000 | 18 | 16 | 22 | 18 | 10 | 23 | 15 | 23 | 22 |
| Air permeability | cm ³ /cm ² /sec | JIS L 1096-A | 0.8 | 0.7 | 0.9 | 0.7 | 1.1 | 0.9 | 0.7 | 0.6 | 1.1 |

§ With X-Static weft stripe

Ruan-X
New fabric woven with X-Static® Silver fibre.

- Anti-microbial
- Anti Odour
- Anti-fungal
- Anti-static
- Thermo-dynamic

Ideal applications:
Sleeping Bags and Down Jackets

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