

CWB / BINDING, BEDDING AND SEPARATION

Polyester Nonwoven Fabric Tape

Lightweight polyester fleece for cable cores

White polyester nonwoven fleece for binding, bedding and separating cable components with low material build-up.



0.05-0.20 mm

NOMINAL THICKNESS

25-70 g/m²

NOMINAL MASS

25-50 N/cm

MIN. TENSILE STRENGTH

Six CWB grades

GRADE RANGE

CABLE CORE BINDING AND LAYER SEPARATION

Lightweight separation with a conformable fleece.

A bonded polyester fibre web forms a flexible fleece wrap. The CWB range is thinner and lighter than the CHB woven range, making it useful where layer separation, conformability and limited cable build-up are priorities.

Typical applications in cable production

Power cable bedding and separation

Provides a flexible textile interface between cable components, including core, screen and sheath layers where specified.

Control and instrumentation cables

Thin grades bind and separate multi-core or grouped assemblies while limiting added diameter and material mass.

Telecom and data cables

General core binding and component separation in constructions that require a lightweight, non-metallic wrap.

Processing and sheath separation

Can help limit unwanted adhesion between components and support stripping. Check performance with the actual sheath compound and process.

Material advantages

Thin grade options

Nominal thickness starts at 0.05 mm for compact constructions.

Lower material mass

Nominal mass of 25-70 g/m² across the CWB range.

Flexible fibre structure

Conforms around the core and minor surface irregularities.

Binding and bedding

Supports core assembly and separation between components.

Separation for processing

Useful where unwanted bonding between layers needs to be limited.

Custom supply

Slit widths and winding styles can be specified for your equipment.

WHEN TO CHOOSE NONWOVEN

Choose nonwoven when low build-up, lower material mass and conformable bedding or separation are the main requirements. Choose woven when the core needs stronger mechanical restraint. Select the lightest grade that reliably meets the application.

White polyester fabric for mechanical binding and separation. Water-blocking, conductive and fire-barrier functions require suitable specialist grades.

Technical data

CWB / Polyester Nonwoven Fabric Tape

PROPERTY	UNIT	CWB-05	CWB-06	CWB-08	TEST METHOD
Thickness	mm	0.05 ±0.01	0.06 ±0.01	0.08 ±0.01	ISO 9073-2
Mass per unit area	g/m ²	25 ±2	30 ±2	40 ±2	ISO 9073-1
Min. tensile strength	N/cm	≥25	≥30	≥35	ISO 9073-3
Min. elongation	%	≥10	≥12	≥12	ISO 9073-3

PROPERTY	UNIT	CWB-10	CWB-15	CWB-20	TEST METHOD
Thickness	mm	0.10 ±0.03	0.15 ±0.03	0.20 ±0.03	ISO 9073-2
Mass per unit area	g/m ²	50 ±10	60 ±10	70 ±10	ISO 9073-1
Min. tensile strength	N/cm	≥40	≥50	≥50	ISO 9073-3
Min. elongation	%	≥12	≥12	≥12	ISO 9073-3

Thermal and moisture properties / all CWB grades

PROPERTY	VALUE	REFERENCE METHOD
Short-term thermal stability	230 °C	Q/TR.J02.031-2000
Long-term thermal stability	90 °C	IEC 216
Maximum moisture content	≤5%	ISO 287

Thermal stability values describe the material, not a finished-cable temperature rating. Short-term exposure depends on duration and process conditions. Tensile test direction is not stated in the supplied CWB data.

WOVEN OR NONWOVEN?

CHB woven grades offer higher specified tensile strength (120-280 N/cm) for stronger binding. CWB nonwoven grades offer thinner, lighter options (0.05-0.20 mm; 25-70 g/m²). Comparison is specific to these ranges; test methods and reinforcement vary between products.

Supply and application guidance

Custom sizes, slit widths and winding styles are available on request. Specify the grade, width, core dimensions, maximum roll diameter and winding format. Control tension and overlap to retain the core without damaging underlying components. Keep material clean and dry; validate compatibility with the sheath compound and subsequent processing.

Material properties do not guarantee finished-cable performance. Product image is representative; surface texture can vary by grade.