

Technical data sheet · Hi-Shrink Tape

210D Hi-Shrink Tape

165°C

A 2 mil, 10% shrink polyester with PTFE release on both sides — for wraps where the tape touches the part on one face and something else on the other.

330°F use temperature

Typical properties

Material	Polyester
Thickness	0.002 in · 0.050 mm
Use temperature	330°F · 165°C
MD shrink	10 %
Shrink force	5.17 lb/in
Max wrapping tension	40 lb/in
Release	PTFE, both sides (D = RR)
Perforated	210B on request
Widths · cores	0.5 – 2.5 in · 1.5 / 3.0 in
Shelf life	Indefinite, stored cool and dry

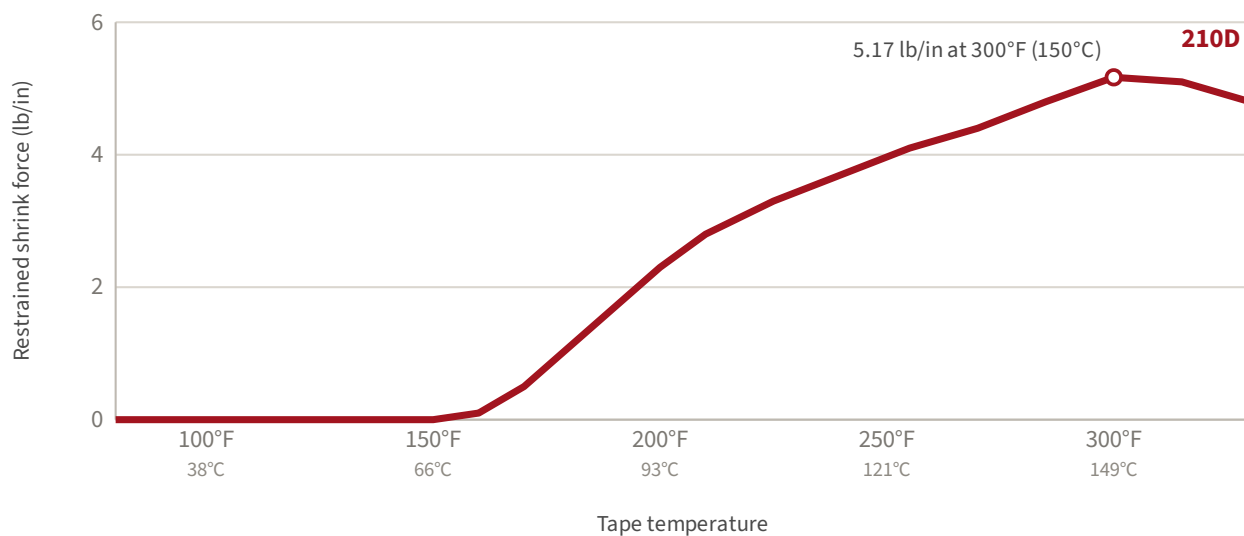
The 200 Series around it

All 0.002 in polyester, 330°F (165°C). Every shrink % is available S, R, I, D / RR, RSI, P, or B. Force and max wrap in lb per inch of width.

SKU	Release	Shrink	Force lb/in	Max wrap lb/in
205S / 205B	None / PTFE OD	5%	2.71 / 2.76	33 / 35
210S / 210B	None / PTFE OD	10%	5.30 / 5.17	38 / 40
210D	PTFE, both sides	10%	5.17	40
212S / 212B	None / PTFE OD	12%	5.49 / 5.64	43 / 45
220S / 220B	None / PTFE OD	20%	8.80 / 8.59	55 / 57

Restrained shrink force – 210D

traced from published datasheet curve · full restraint · zero pre-tension



Shrink begins near 160°F; force is at plateau by 290°F and holds through cure.

What it is

The double-side release version of the 200 Series 10% tape (210R is single-side, 210S plain). Both faces carry PTFE, so the tape releases from the layup beneath it and from whatever lies over it — a second wrap, a caul, insulation on a coil, or the next turn in a high-overlap wrap where resin bleeds between layers. The coating costs a little force (210S is 5.30); it is specified for release, not force.

Best for

- High-voltage coils — release from insulation and hardware on both faces
- Two-stage wraps under an outer high-force tape
- Parts that go on to bonding or overmolding on the wrapped surface
- Bleed-prone resins at high overlap

Not for

- Maximum compaction — step to 220R (8.59) or 320R (12.38)
- Wraps where the outer surface should grip a second tape
- Cures above 165°C
- The lightest cello line — 100 Series

How to wrap it

- Wrap at 5–10 lb/in; 40 lb/in is the maximum
- 50% overlap to start; increase to 66.7% or 75% for more compaction
- For coils, the thinner 1412RR (0.0014 in, both-side release) is the alternative

D = RR

Both mean PTFE release on both sides. Specify either.

Perforation

Order 210B for perforated-and-coated. Perforations let volatiles out through the wrap during cure; treat the rated force as an upper bound.

Don't see your configuration?

Custom widths, lengths, and cores are routine — up to 8,000 m on a traverse-wound spool. If the product you need isn't listed, tell us about the application; we would rather talk it through and find out whether we can make it than let you settle for something close.

Compaction pressure: the five levers

Lever	What it does
1 Tape	Material, thickness, and shrink % set the force per inch of width
2 Wrap tension	Typically 5–10 lb/in; stay at or below the SKU maximum — above it the film elongates at application and delivers less at cure
3 Overlap	Layers over each point: 50% = 2, 66.7% = 3, 75% = 4, 87.5% = 8. Use values that give a whole number everywhere
4 Diameter	Fixed by the part. Pressure $\approx$ layers $\times$ force $\div$ radius — double the diameter, half the pressure
5 Shrink %	And thickness — within polyester, the lever to reach for before changing series

Ordering, samples, and engineering support

Complimentary samples of any in-stock product — shrinktape.com or (440) 505-7640. Application engineering is available for selection, trials, and troubleshooting — sales engineers work with your process engineers, on site where it helps.

Widths 0.5 – 2.5 in in 0.25 in steps · cores 1.5 or 3.0 in ID · handheld rolls 100 yd · flat-pad rolls 750 yd (about 9 in diameter), and flat pads to about 12 in diameter on a 3 in core, length depending on film thickness · traverse-wound spools to 8,000 m · release coat facing outward unless specified (R = OD, I = ID).

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