



## FT 5210 DL

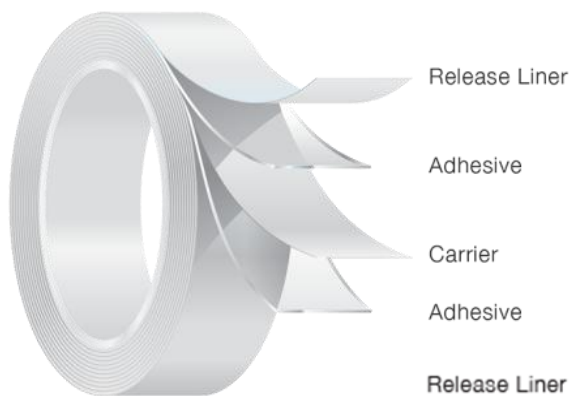
Avery Dennison FT 5210 DL is a double coated black polyester with a modified acrylic adhesive, offering an economic bonding solution between screen cover (PMMA or PC, Glass), keyboard and housings (Aluminum or ABS+PC).

### FEATURES:

- Light blocking: In the scope of visible spectrum <math><0.3\%</math> light transmission by ASTM D 1003 without pin hole
- Extra opacity thin (1 mil) solid black PET carrier to optimize the slim construction
- High bonding strength to common plastics and glass
- High bonding strength to printed and coated surfaces
- Double PET liners bring tape with smooth surface, easy die cutting and moisture resistance

### BENEFITS:

- Solid black tape provides high opacity performance (light shielding, eliminate the risk of pin hole) in LCD gasket or keyboard gasket to eliminate the risk of light pass through
- Optimal bonding strength and easy handling performance designed for small size components
- PET carrier and liner to eliminate the risk of wrinkle, shrinkage, fiber and article contamination at clean room circumstance
- Long-lasting specially formulated adhesive and tape construction provides a strong, lasting bond in the back light unit and LCD display module. High temperature resistance: 200°C for short term



### CONSTRUCTION:

#### Liner 1:

Polyester

#### Adhesive 1 Liner:

Modified Acrylic

#### Carrier:

Black Polyester

#### Adhesive 2 Uwind:

Modified Acrylic

#### Liner 2 Easy:

Polyester

**FT 5210 DL**

Adhesive Properties:		Typical Values		
Thickness	ASTM D-3652	US Mils	MM's	Micron's (µm)
Liner 1:		3.0	0.07	75
Carrier and Adhesives:		6.9	0.18	175
Liner 2 Easy:		1.4	0.04	36
Total Caliper:		11.3	0.29	286

PEEL ADHESION		Test Method(s): PSTC-101, ASTM D-3330		
2 mil PET 180° 12 in / min (305 mm / min)				
Substrate			Lbf / In	N / Meter
SS	Liner	20 min dwell	4.0	700
		24 hr dwell	4.5	788
Polypropylene	Liner	20 min dwell	2.0	350
		24 hr dwell	2.2	385
ABS	Liner	20 min dwell	4.0	700
		24 hr dwell	4.5	788

LOOP TACK		Test Method(s): PSTC-16		
2 mil PET 20 in / min (508 mm / min)				
Substrate			Lbf / In	N / Meter
Initial	Initial		31.4	5,498

TENSILE		Test Method(s): ASTM D-897		
Product				
Substrate			Lbf / In <sup>2</sup>	N / Meter
			17.1	2,994

ELONGATION		Test Method(s): ASTM D-897		
Product				
Substrate			%	
			60.0	

STATIC SHEAR		Test Method(s): PSTC-107, ASTM D 3654		
2 mil PET Initial 180° 1" sq (6.5 cm <sup>2</sup> ) 5.5 lbs (2.5 kg)				
Substrate			Min to Fail	
Liner:			> 10,000	

LIGHT TRANSMISSION		Test Method(s): ASTM D-1003		
Product				
Substrate			%	
			0.3	

TEMPERATURES		° F	° C
Long Term Temp (10,000 mins)		50 ° F	10 ° C
Short Term Temp (240 mins)		248 ° F	120 ° C
		392 ° F	200 ° C

THE LISTED VALUES ARE TYPICAL AND NOT INTENDED TO SERVE AS PRODUCT SPECIFICATIONS

**APPLICATION TECHNIQUES**

- It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease or oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (film / rigid) surface achieves different performance

**STORAGE / SHELF LIFE**

- Two years when stored at 64-72°F (18-22°C) / 30-70% relative humidity, out of direct sunlight and in original packaging.

Please refer to [Tapes.AveryDennison.com](http://Tapes.AveryDennison.com) for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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